

THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,233 82nd YEAR

THURSDAY, AUGUST 11, 1960

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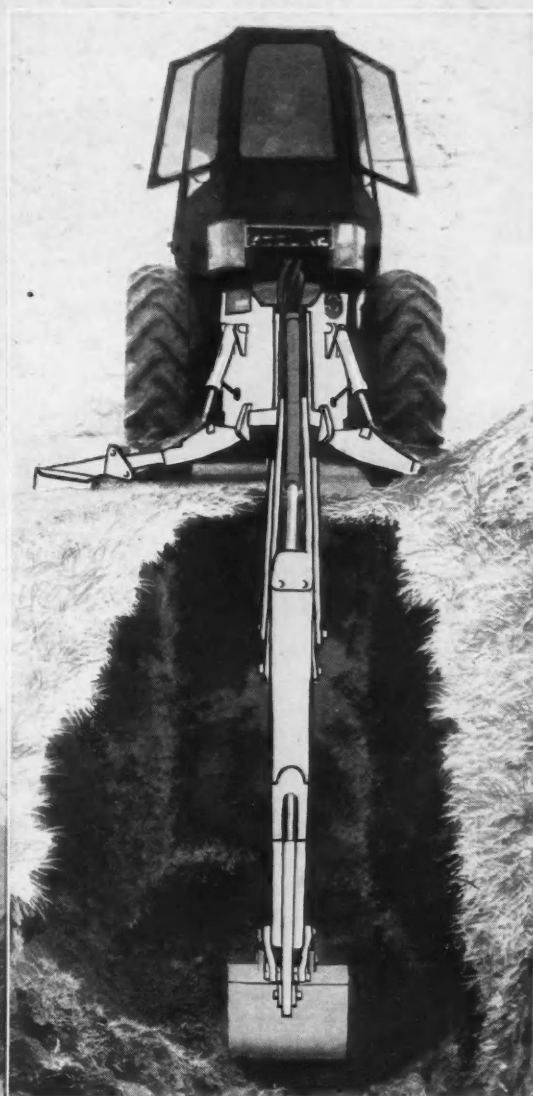
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THE CONTRACT JOURNAL 11.8.66

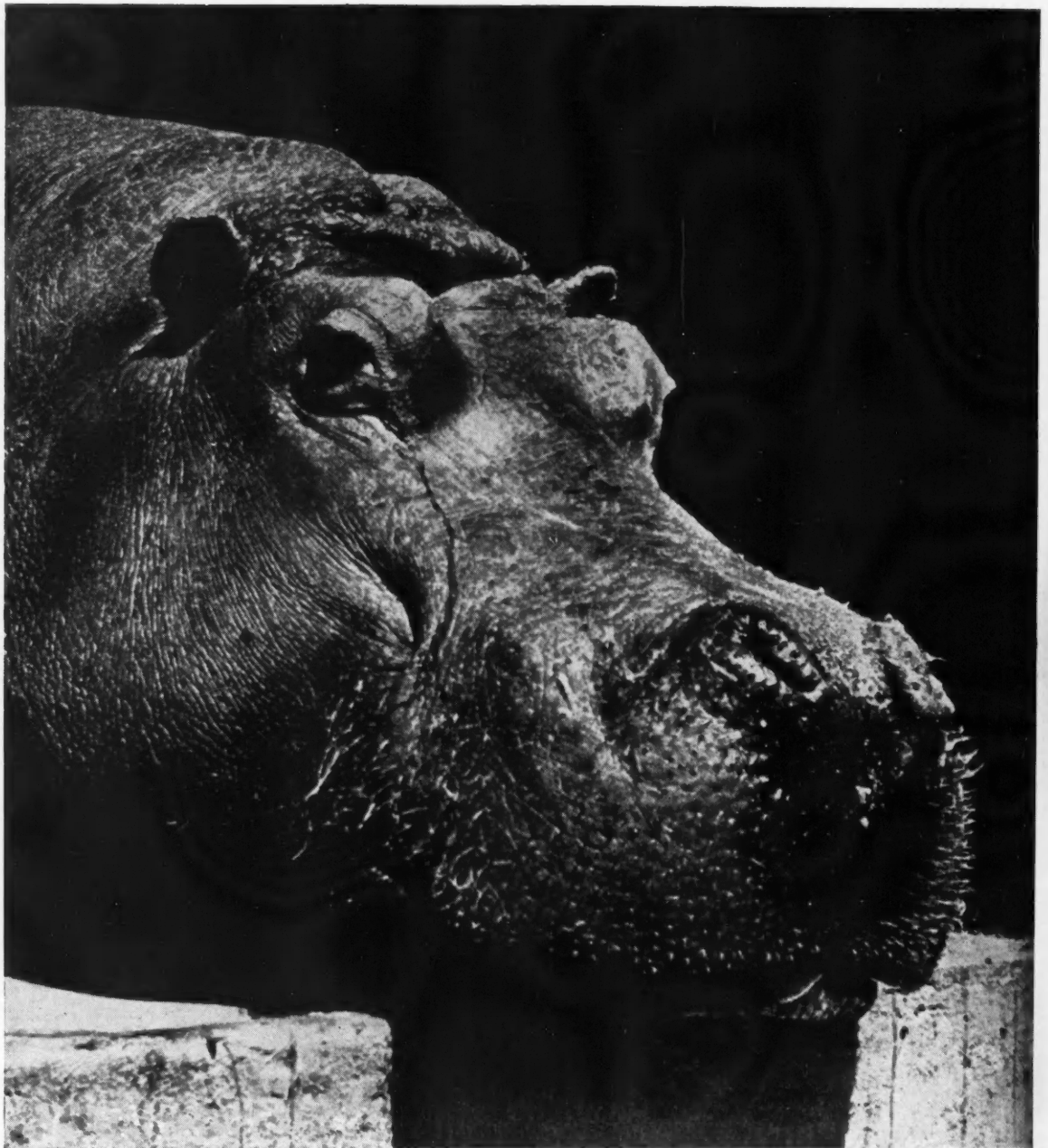
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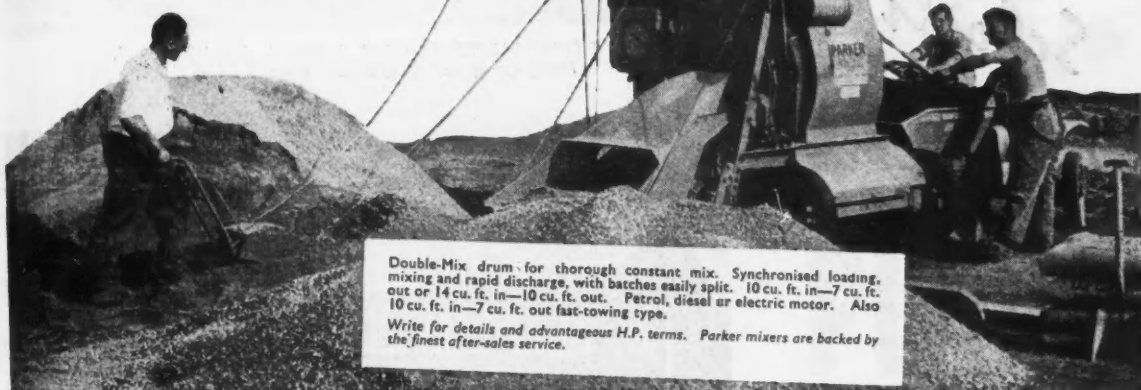
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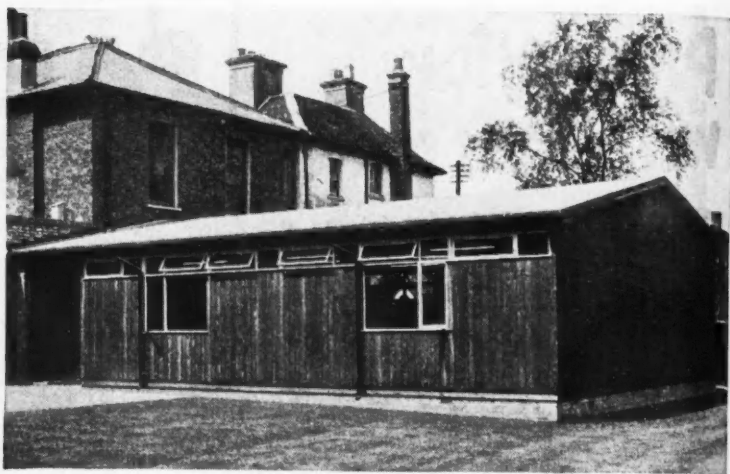
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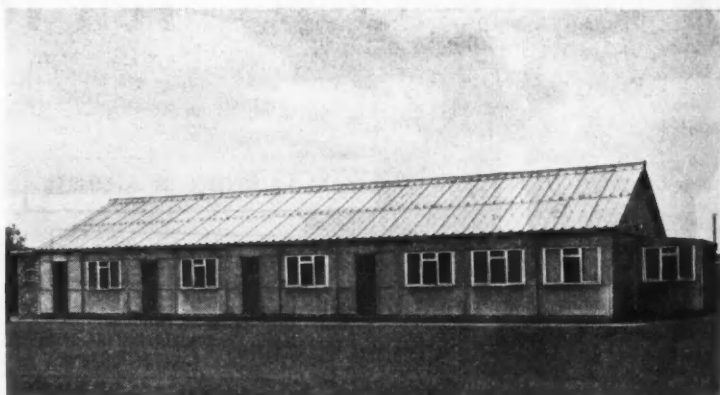
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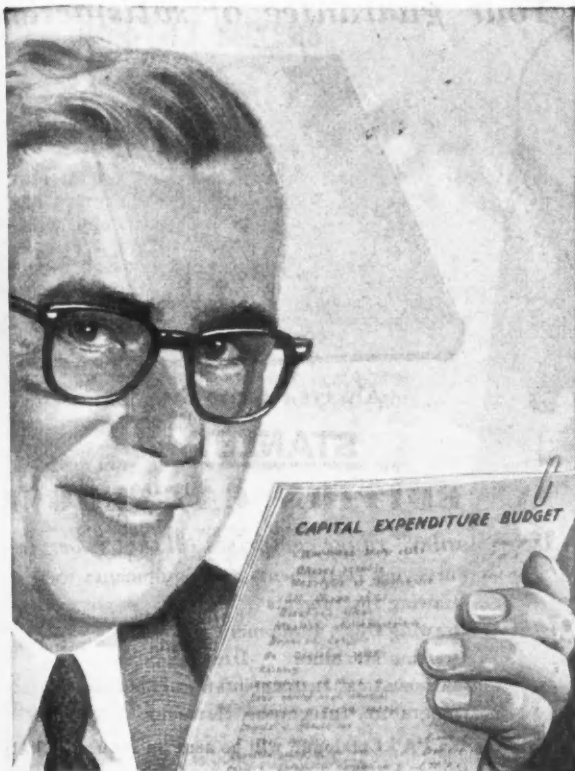
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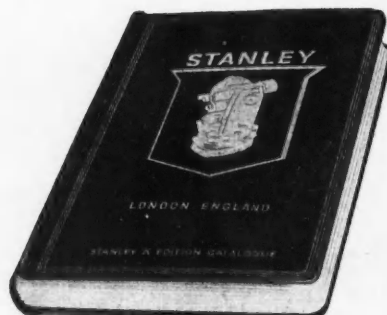
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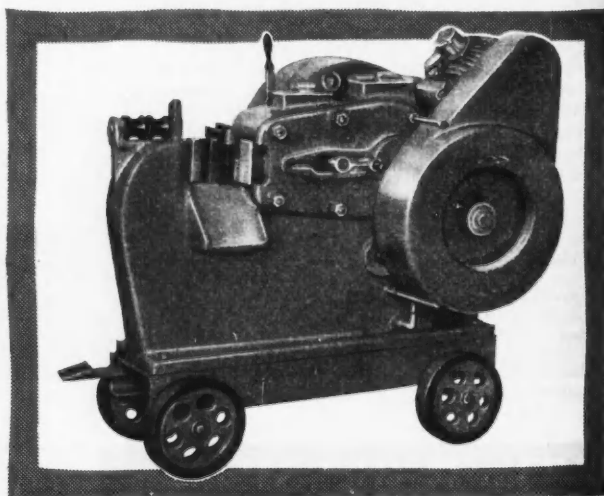
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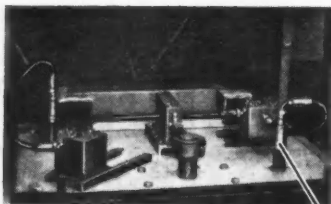
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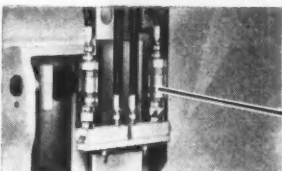


A Benford 18/12 mixer discharging concrete into a 23 cwt. size Benford Dumper fitted with Type "A" Crane Skip. Note small labour force.



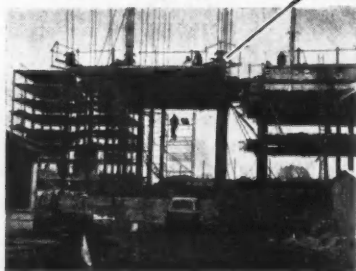


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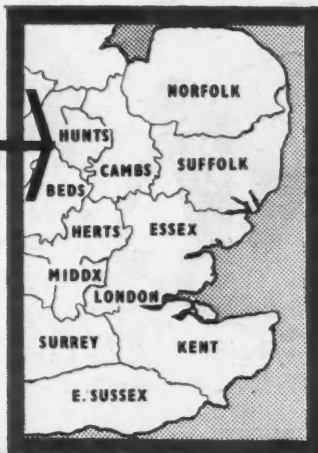
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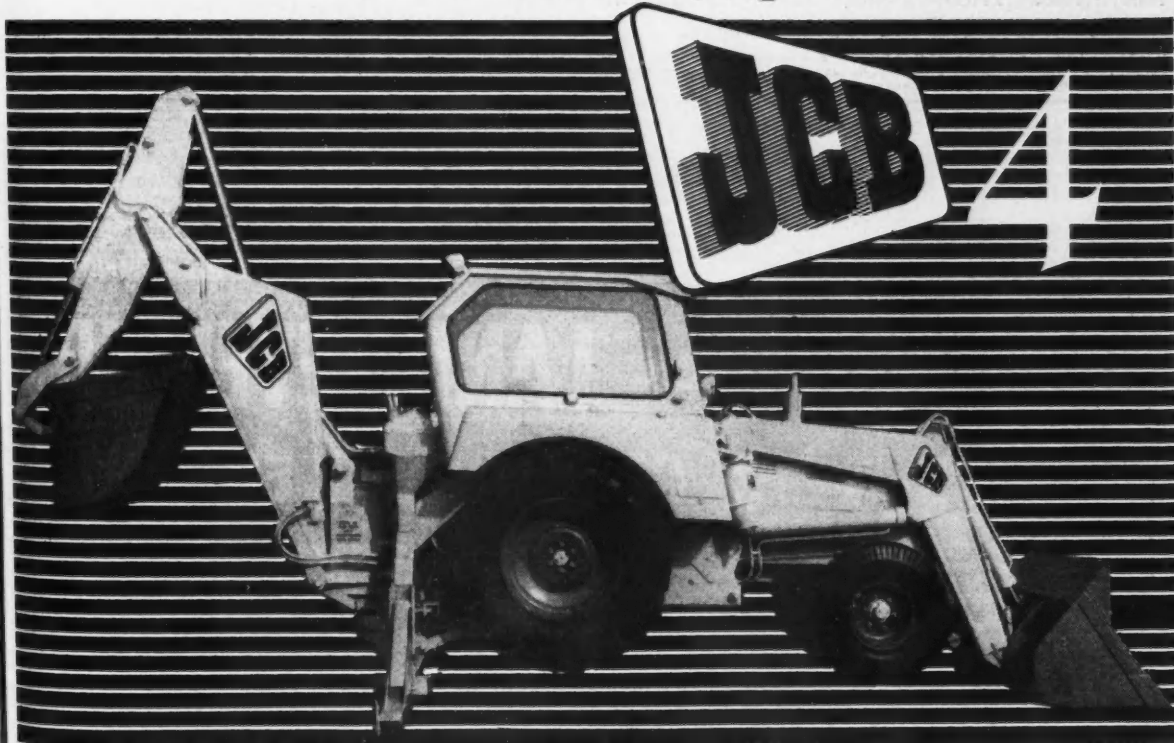
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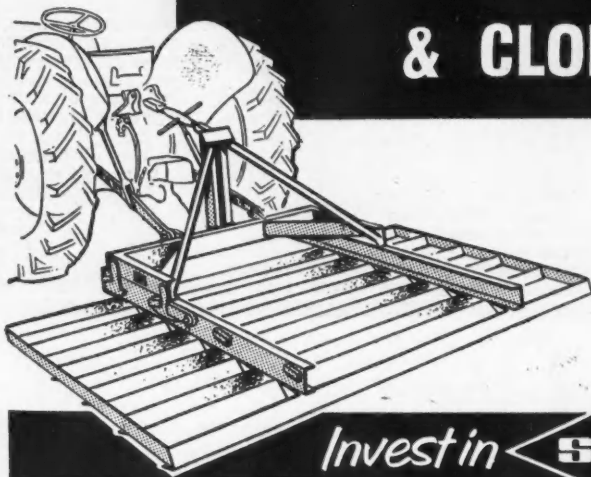
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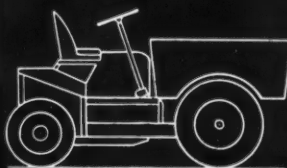
SIDE DISCHARGE DUMPER

This completely new side discharge-dumper provides hydraulically operated finger tip controlled side discharge of concrete—1'-3" above ground level whilst travelling under load

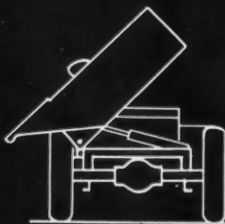
SPECIFICATION

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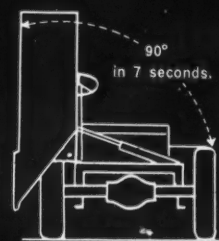
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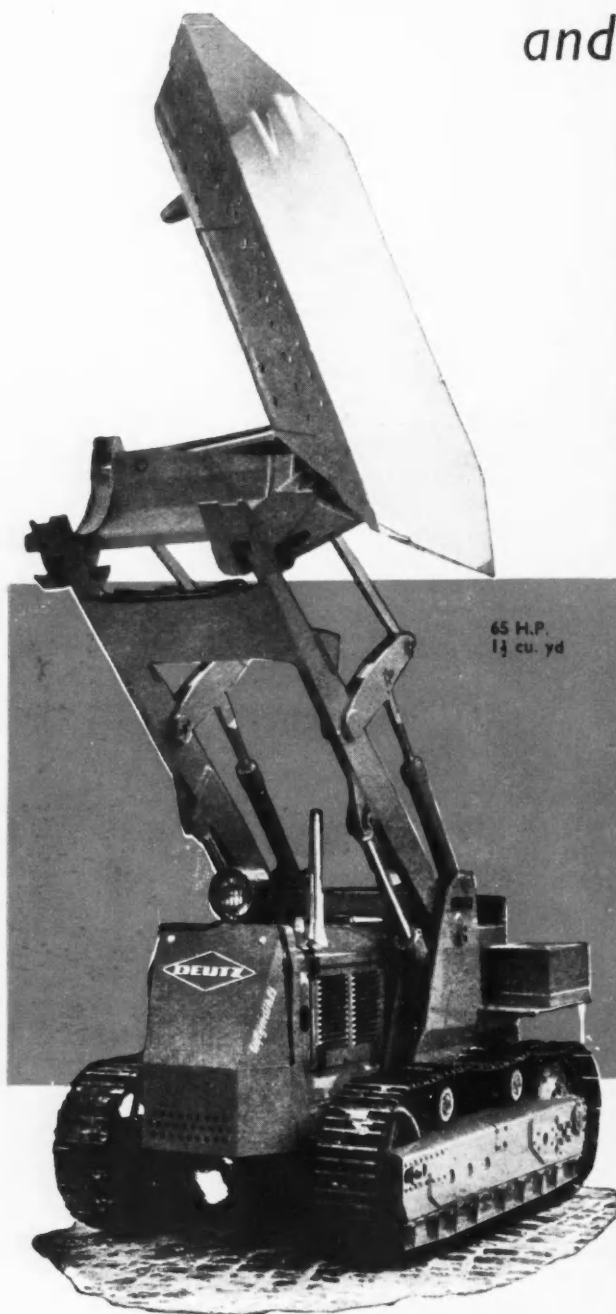


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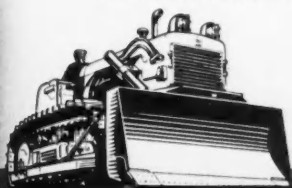
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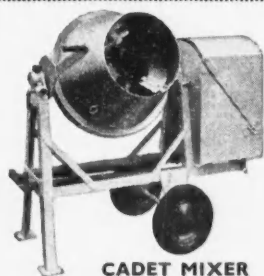
* **PRESS-BUTTON**
CONTROLLED
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LINER

One man does the work of three with the
CLOVERLEAF

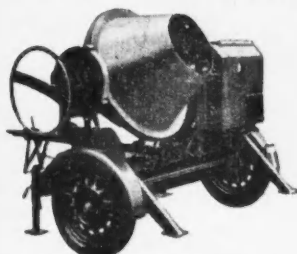
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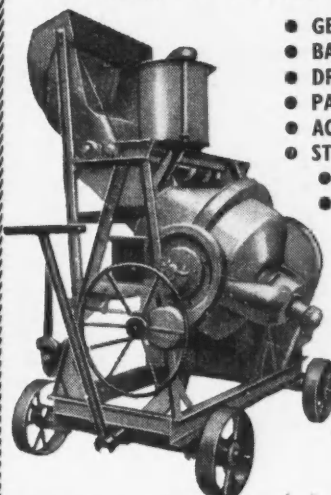
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The finest **TILTING DRUM MIXER** in the world!



BY APPOINTMENT TO HER MAJESTY THE QUEEN
MANUFACTURERS OF CONCRETE BLOCK AND
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NOW
AVAILABLE WITH
MIXER DRIVE
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PRESS-BUTTON
CONTROLLED
SHOVEL
WINCH-DRIVEN
BY MIXER



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The press-button controlled shovel is winch-driven by the mixer and enables one man to load the Cloverleaf without any other assistance. And of course . . .

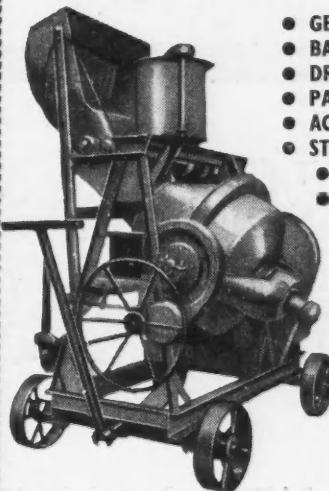
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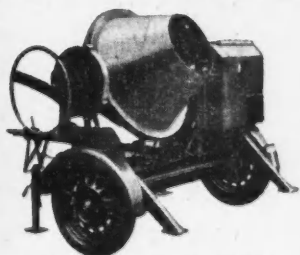
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| <input type="checkbox"/> JUNIOR MIXER | <input type="checkbox"/> ROUGH RIDER DUMPER |
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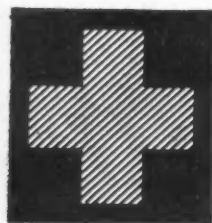
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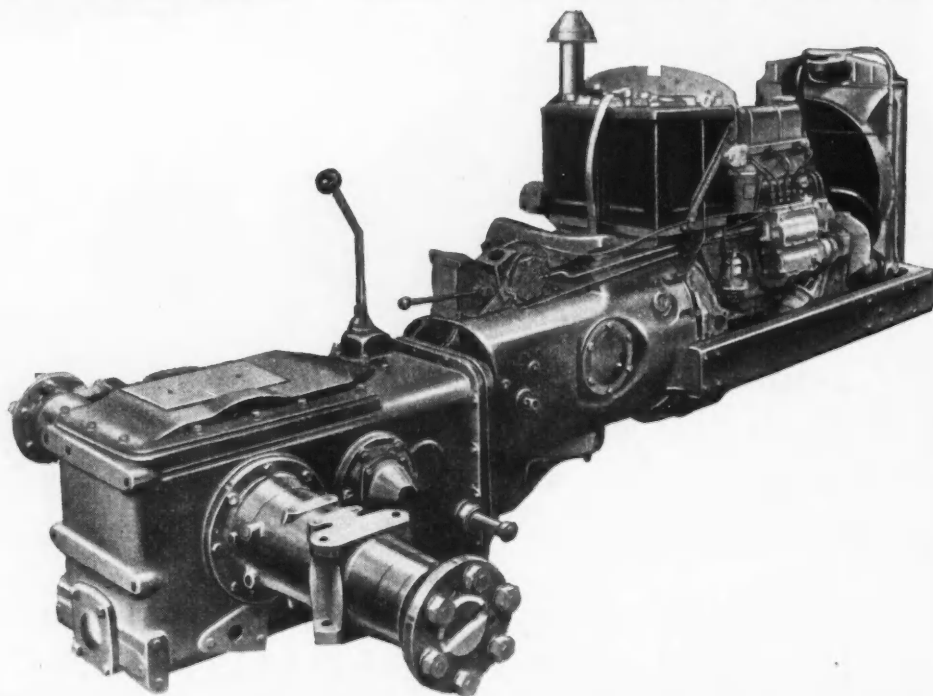
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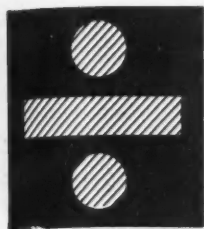
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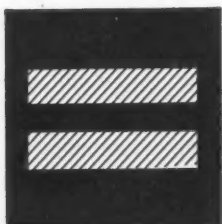
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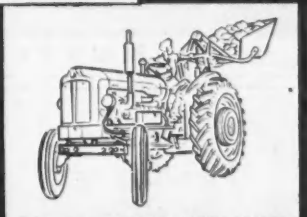
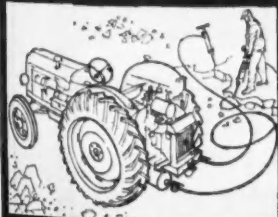
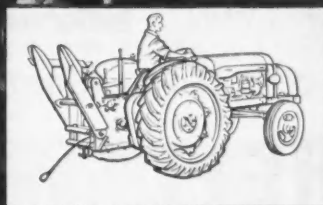
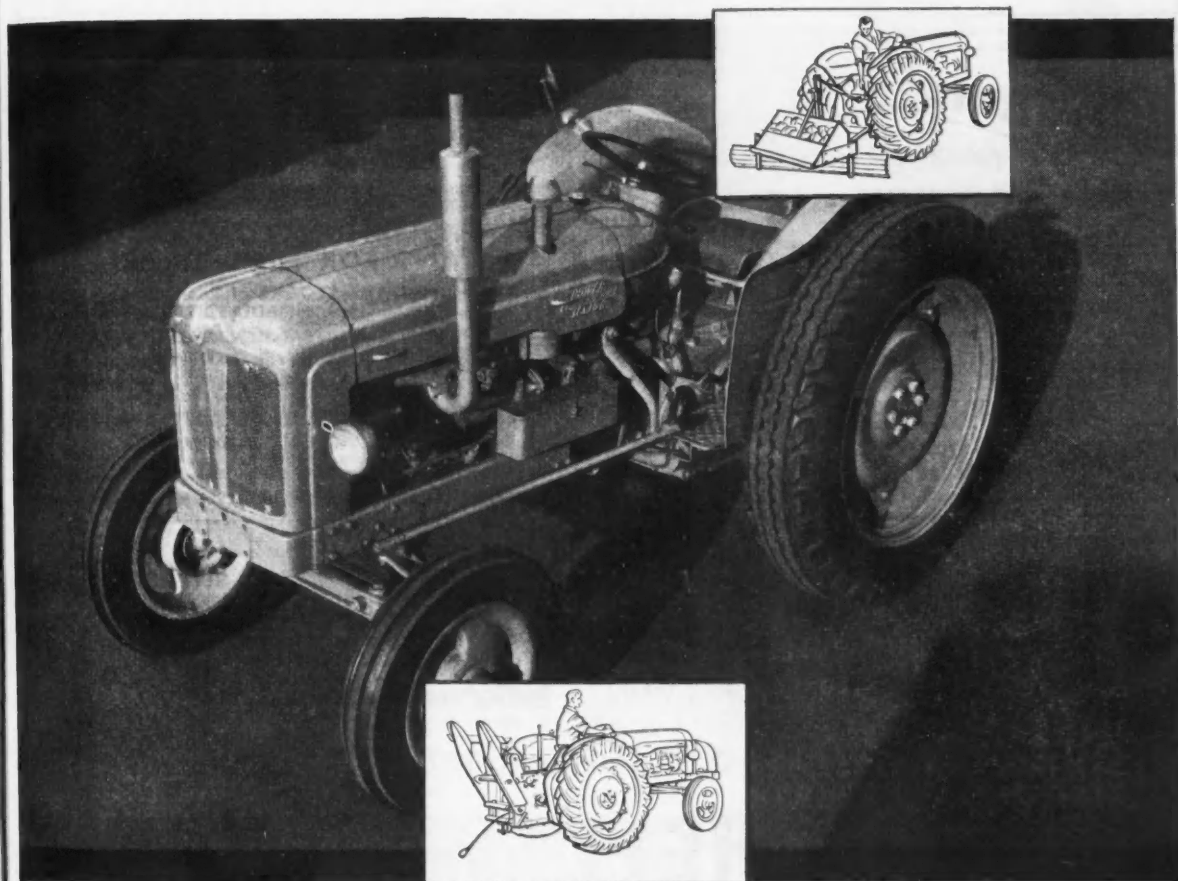
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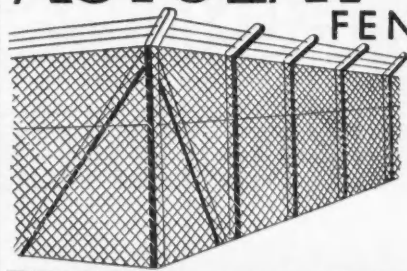
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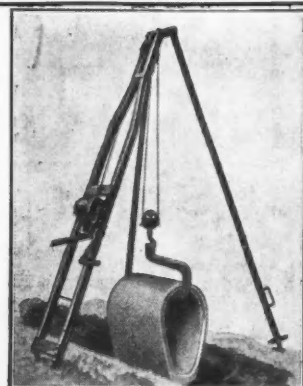
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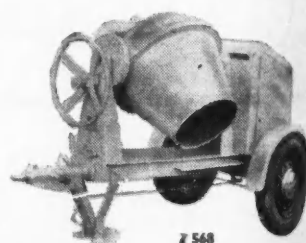
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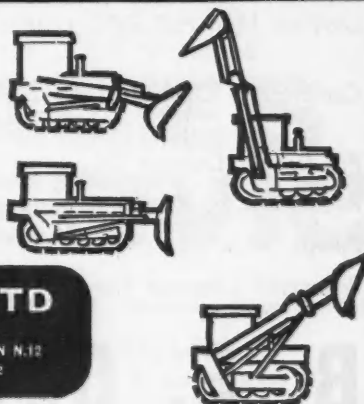
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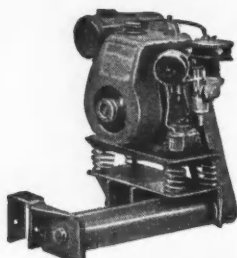
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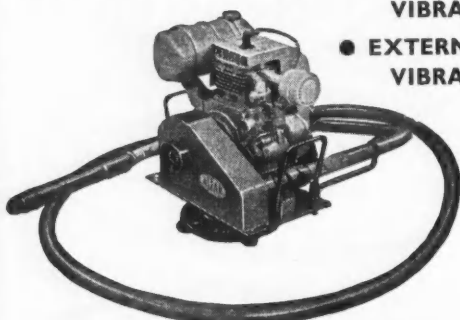
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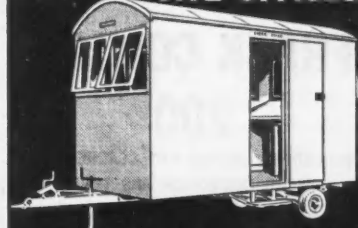
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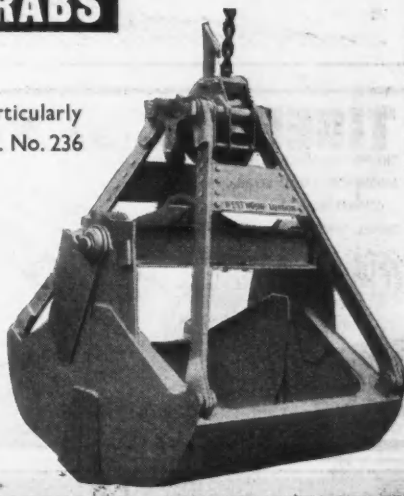
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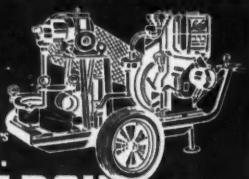
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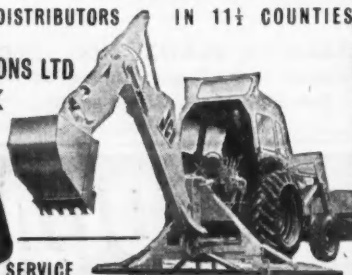
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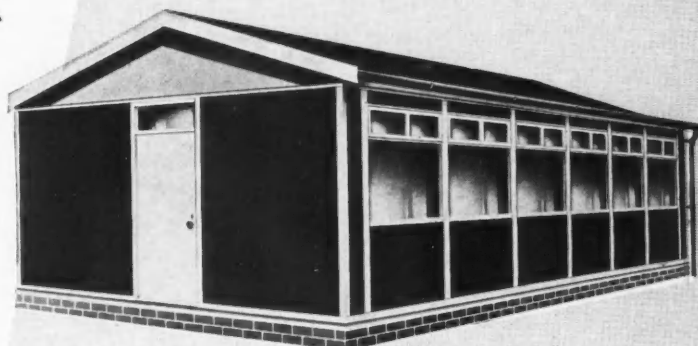
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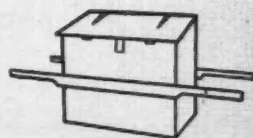
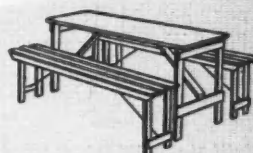
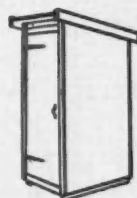
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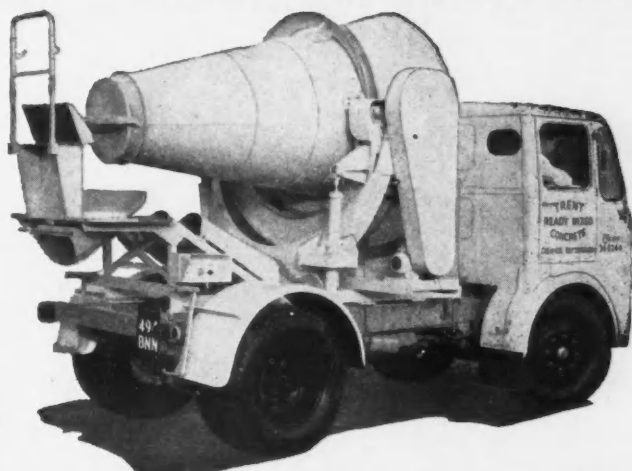
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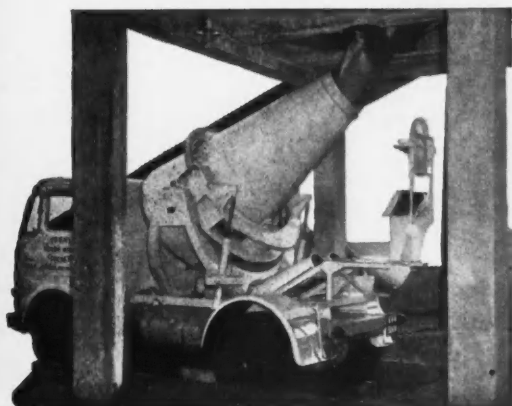
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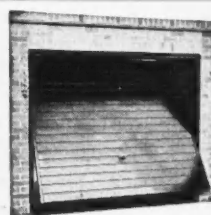
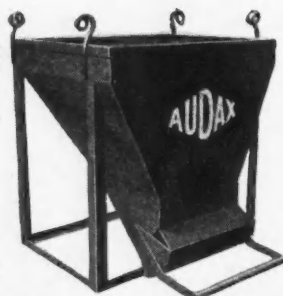
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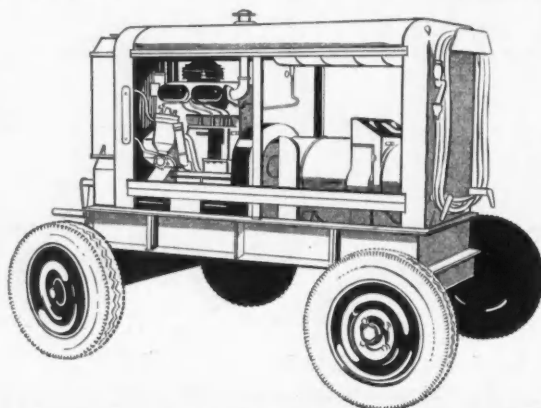
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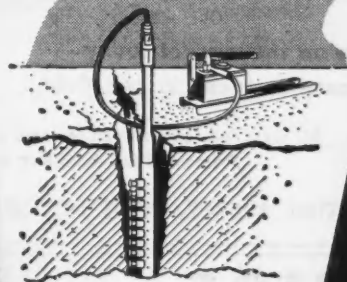
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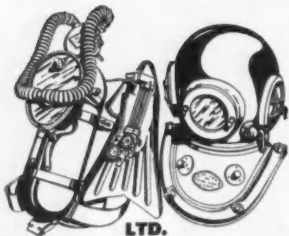
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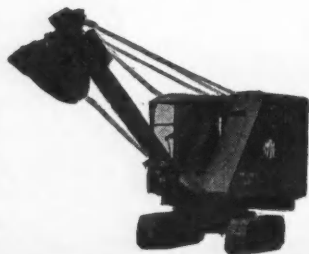
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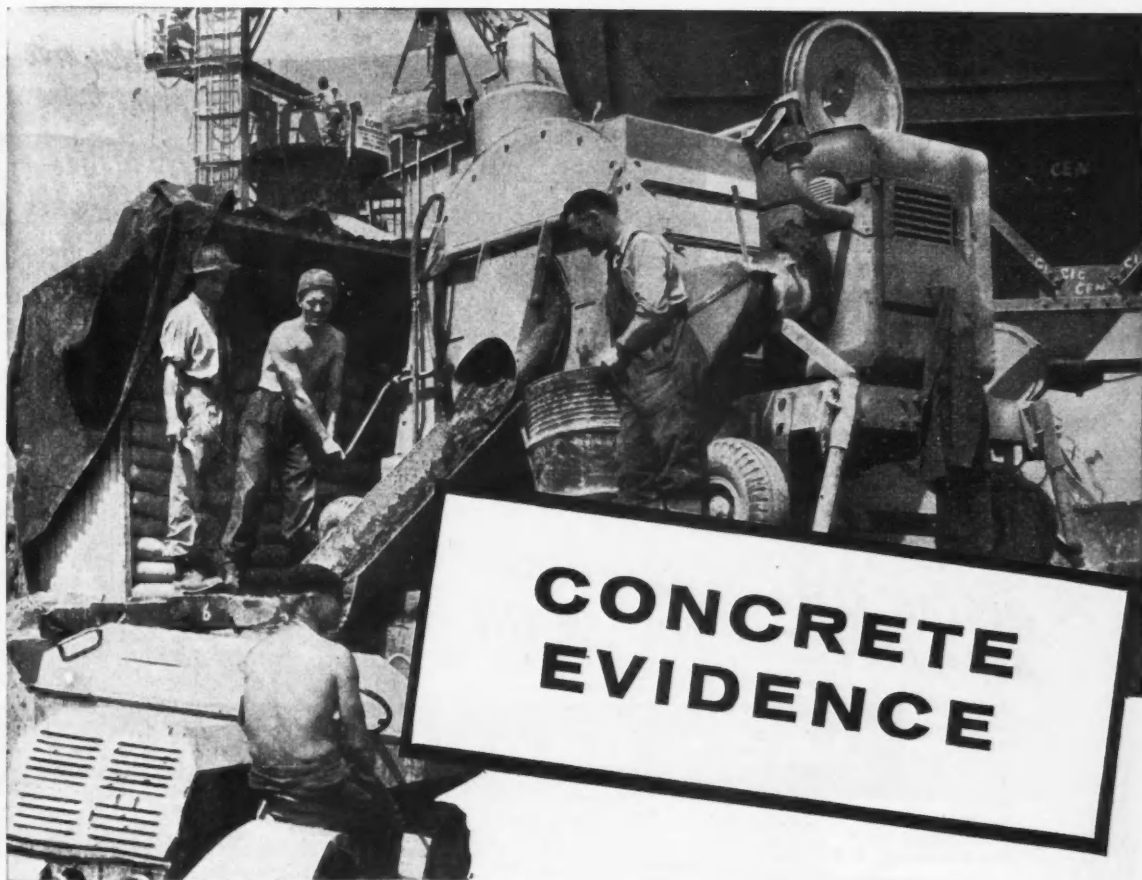
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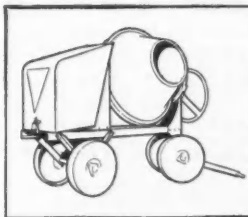


This photograph of an S & P mixer supplied to Balfour, Beatty & Co. Ltd. is reproduced by kind permission of R. A. Lister & Co.

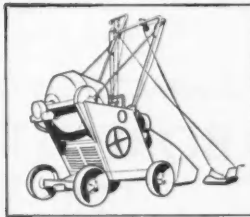
A good mixer is judged by its performance and the Stothert & Pitt 14 NT mixer working at Berkeley power station gives concrete evidence of its worth. It has a mixed batch capacity of 14 cubic feet, a maximum loader hopper capacity of 21 cubic feet, and at thirty batches per hour, it will mix 125 cubic yards of concrete in an 8-hour day.

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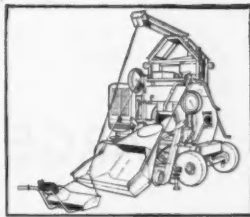
The 14 NT can easily be converted from low to high discharge or vice-versa. It can also be fitted with Patent Integral Hydraulic Weigh Gear and Dragline Scoop.



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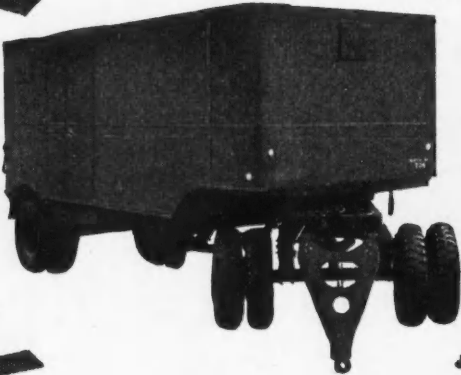
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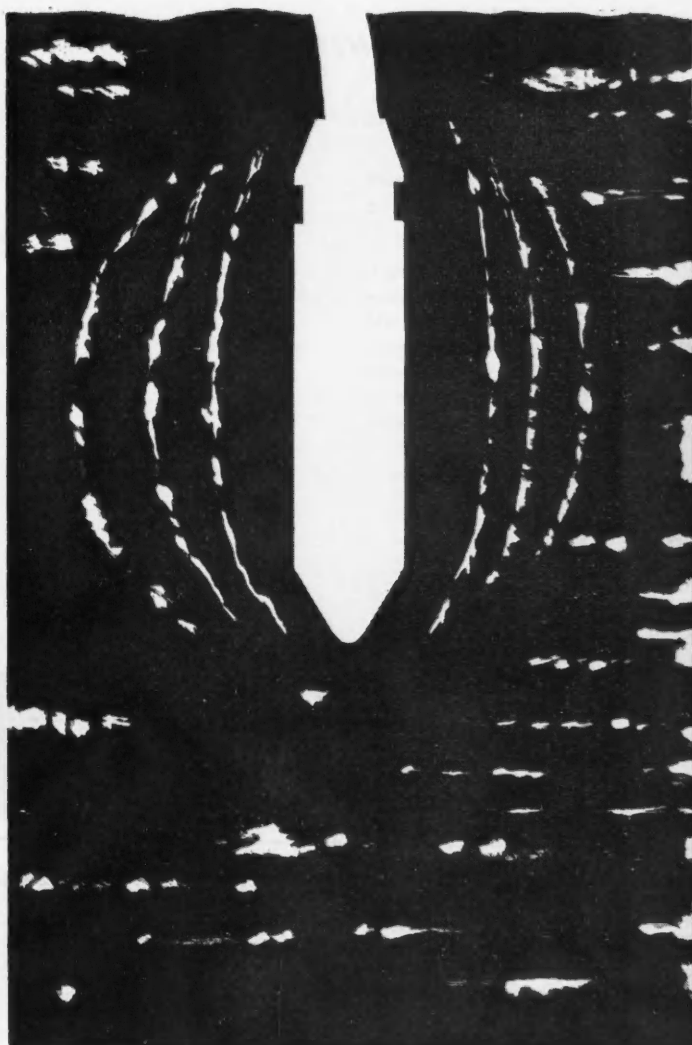
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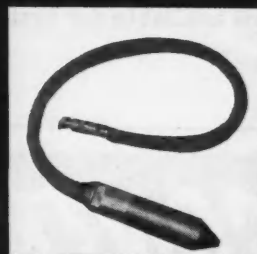
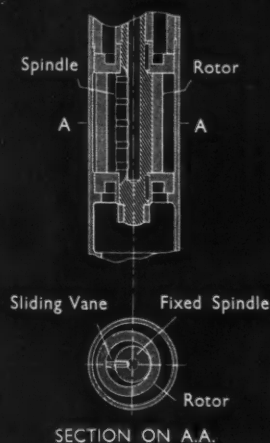
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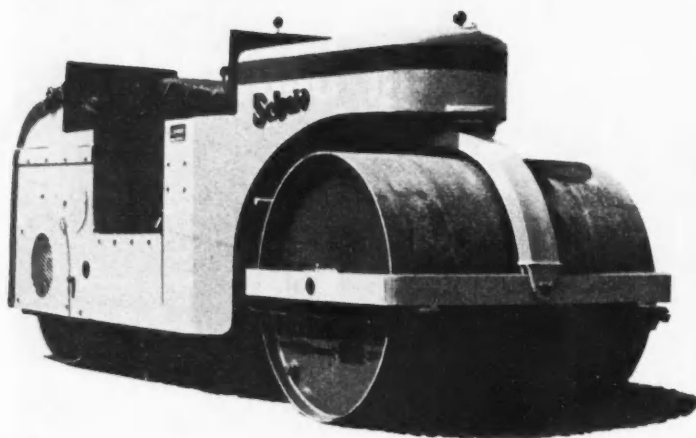
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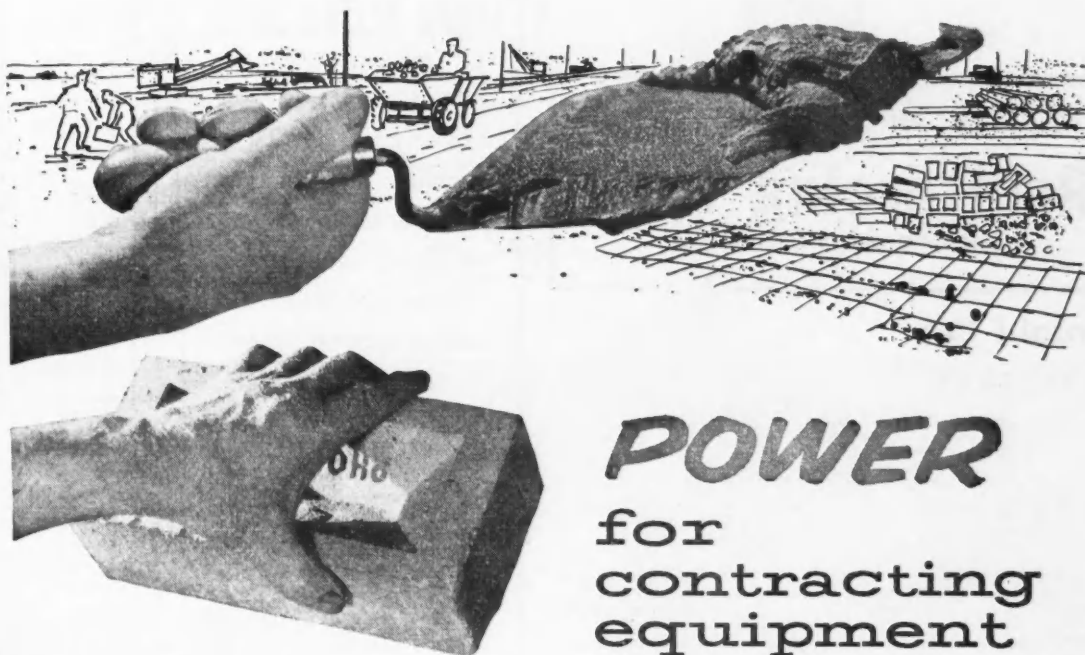
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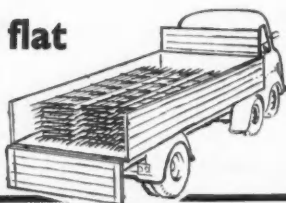
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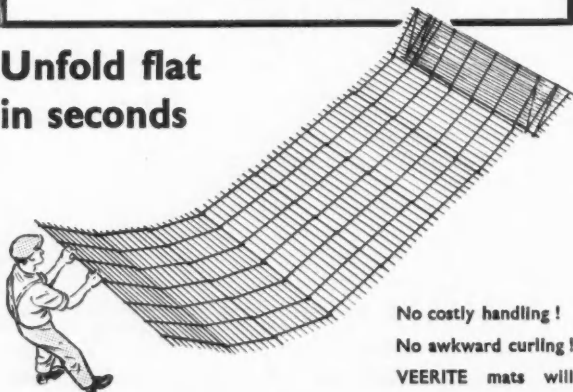


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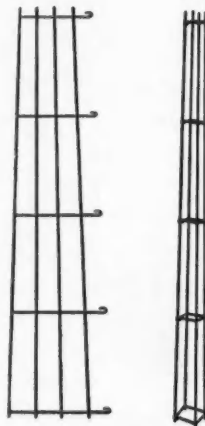
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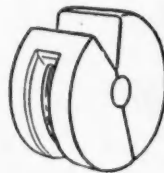
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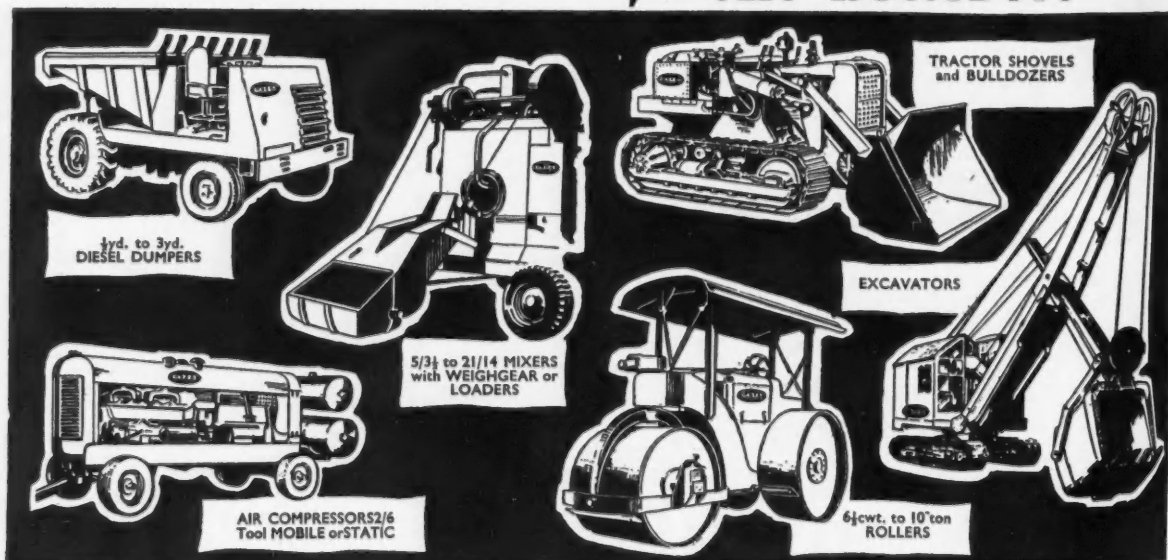
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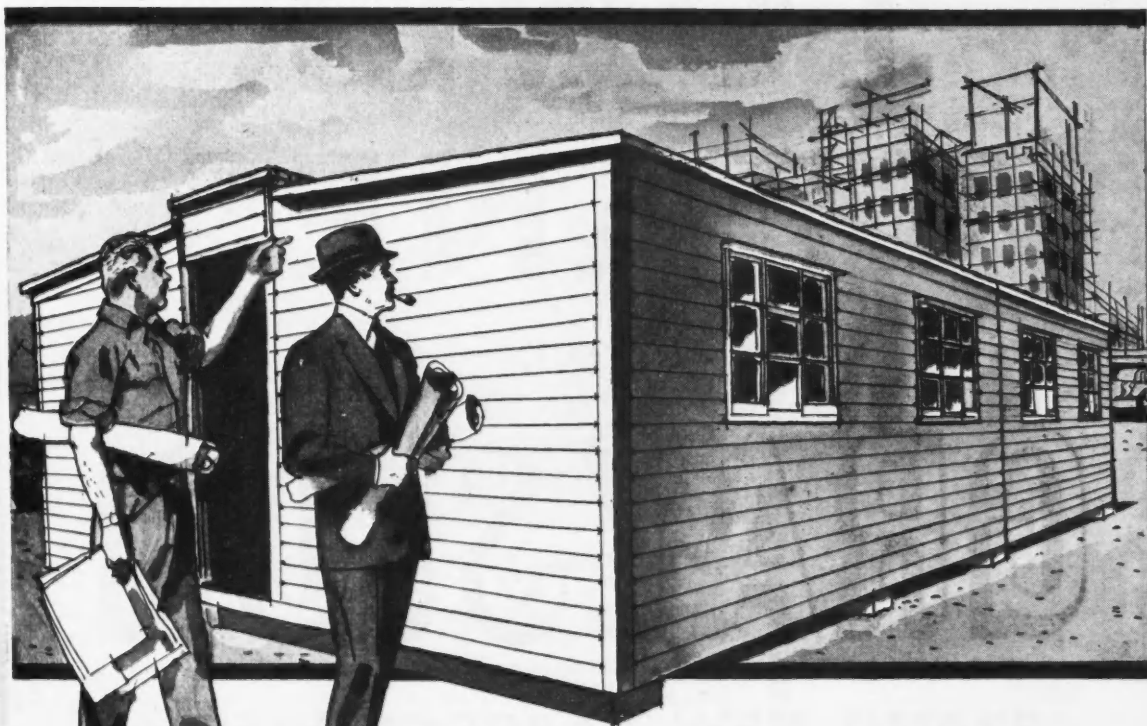
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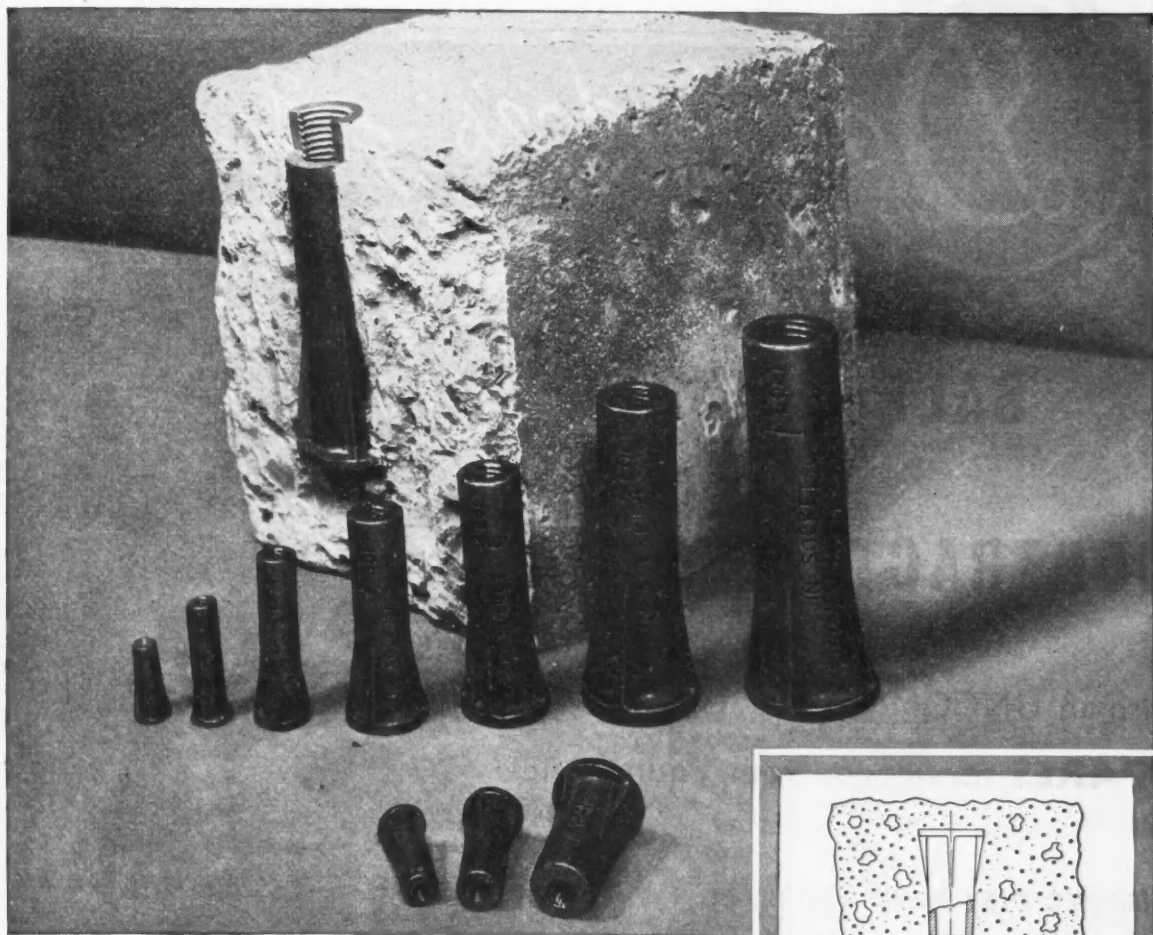
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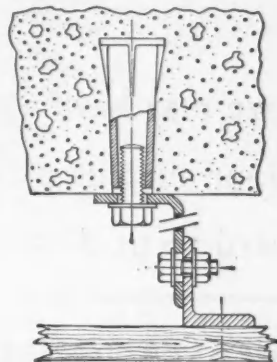
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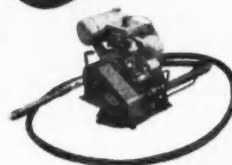
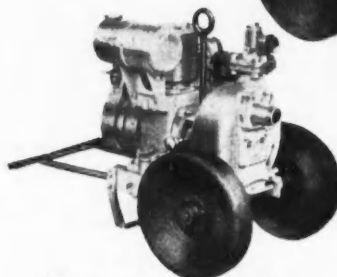
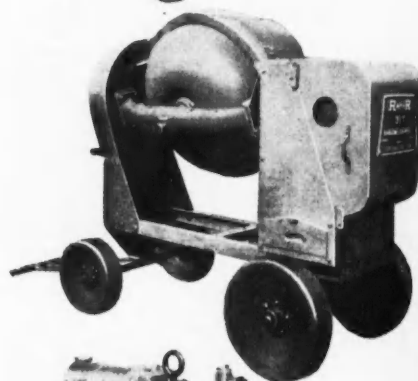
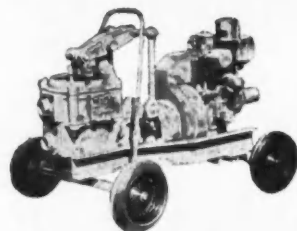
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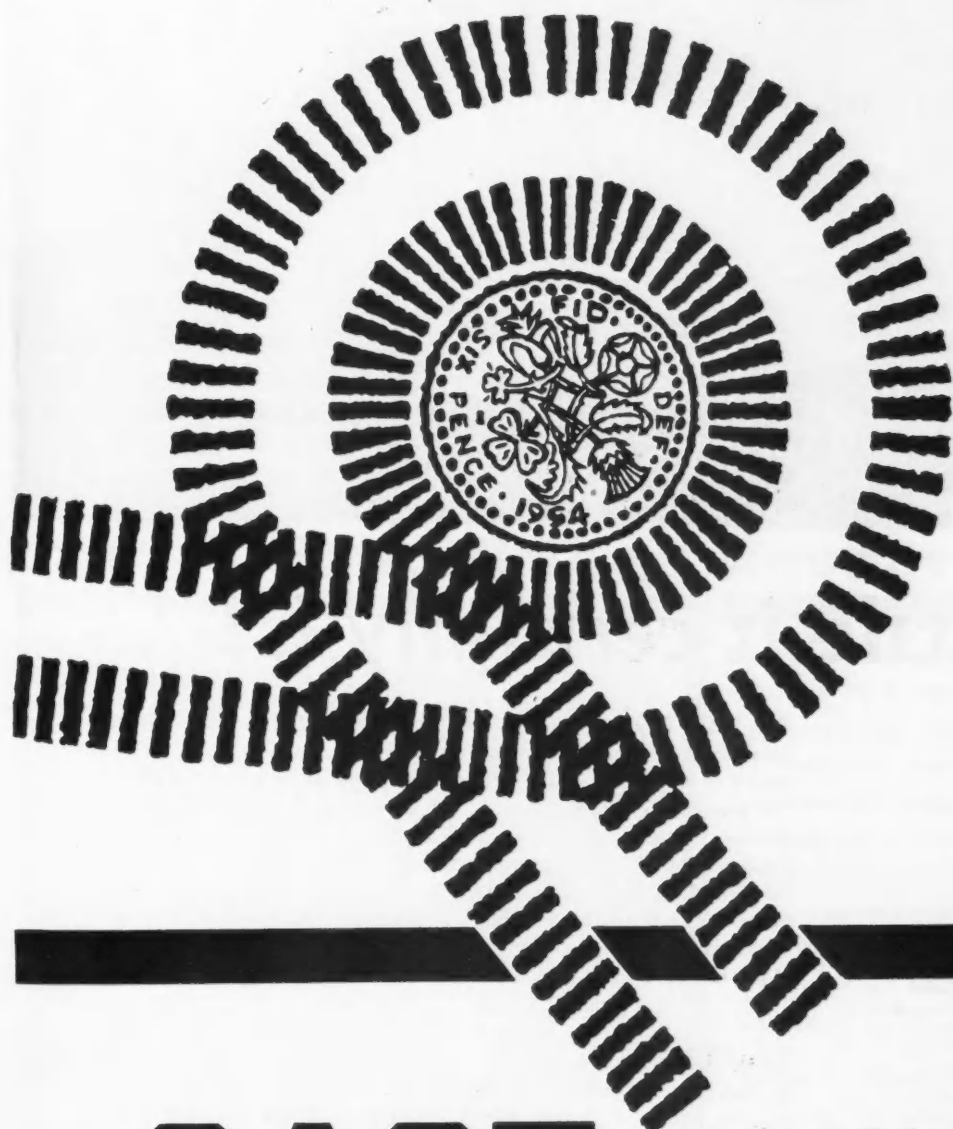
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Versatile *it certainly is!*

The *Oxford Dictionary* definition of 'versatile' is 'turning readily from one subject or occupation to another' and 'capable of being moved or turned as on hinge'. Both these definitions aptly apply to Wakefields. The astute site engineer will have his graders busy all the time — and he will turn to them for many jobs no other earth-mover can do. The moldboard of a Wakefield, turning through 360° and tilttable up to 90° in the vertical plane, can do almost any job of earth levelling and spreading, from site preparation to finishing. It cuts ditches and bank-slopes, too. These days, graders are a necessity; be sure that yours are Wakefield Motor Graders.

For maintenance and light construction jobs, there is Wakefield Model 603. With 50 h.p. diesel engine, it is a glutton for work, inexpensive to buy — and operate.

FEATURES

90, 100, 105, 115 or 130 b.h.p. Diesel Engines
Reliable hydraulic system giving finger-tip control of all grading operations
Power-assisted steering
Constant-mesh Transmission
Chain or Gear Tandem Drive

OPTIONAL EXTRAS

Power-shift Moldboard
Scarifier
Bulldozer
Snowplough
Cabs, etc.

WAKEFIELD motor graders

CONSTRUCTION MACHINERY LTD., WAKEFIELD, ENGLAND. Distributors in most countries

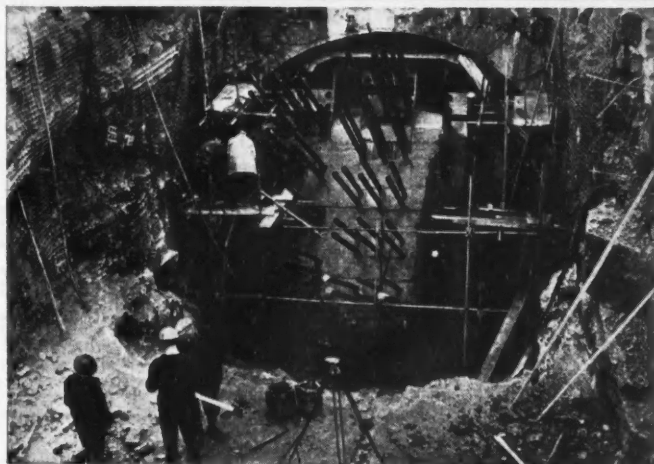
WF 607

RYLANDS MAKE HISTORY

Giant Prestressing Strands are being used to anchor the Forth Road Bridge to the rock. The project involved the development of the world's largest galvanised wire cables having the highest possible tensile strength. The Contractors called in the resources and practical experience of Rylands for this purpose.



Forth Road Bridge Anchorages



Rylands were called on to provide a minimum breaking load of 350 tons for each unit and actual tests are as high as 381 tons.

The total weight of strand in these anchorages is about 630 tons.

Consulting Engineers:
MOTT, HAY & ANDERSON

Contractor:
JOHN HOWARD & COMPANY LTD.

Each anchorage is tunnelled 240 feet into the solid rock bed and filled with concrete. 278 steel tubes, $4\frac{1}{2}$ " diameter, are cast "in situ" and through these are threaded assemblages of four $1\frac{1}{4}$ " diameter strands. Each assemblage is secured at one end by a massive zinc socket, the other ends being gripped for stressing by specially designed wedges.

Rylands $1\frac{1}{4}$ " Prestressed Concrete Strand is also being used in the Wentbridge Viaduct, the Carlisle Marshalling Yard for British Railways, the Kilwinning By-Pass Road Bridge and the Mars Bar Factory at Slough.

RYLANDS
BROTHERS LIMITED
WARRINGTON - ENGLAND

CONTRACTS

BOROUGH OF MITCHAM.

PHIPPS BRIDGE REDEVELOPMENT SCHEME.

CONTRACT NO. 4.

STAGE 1—HOUSING.

TENDERS are invited for the CONSTRUCTION of the FOLLOWING—

- 21 Houses.
- 8 Flats in Two-storey construction.
- 24 Flats in Four-storey construction.
- 31 Flats in Five-storey construction.
- 73 Flats in 11-storey construction.

Contractors who wish to tender upon Bills of Quantities should submit their names not later than 12 Noon on SATURDAY, 20th August, 1960, to the Borough Engineer and Surveyor, Town Hall, Mitcham, at whose Office the Drawings and General Conditions of Contract may be inspected during normal office hours. Tenders must be delivered to the undersigned, in the envelope provided, not later than First Post on WEDNESDAY, 5th October, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham
20th July, 1960.

CITY OF BATH.

SNOW HILL REDEVELOPMENT.

DEMOLITION OF 53 PROPERTIES AND THE ERECTION OF 94 DWELLINGS, 35 GARAGES AND A LAUNDRY.

Contractors desirous of TENDERING for the ABOVE WORKS should submit their names to the Architects, MESSRS. SNAILUM AND LE FEVRE, 18 Brock Street, Bath, by the 20th AUGUST, 1960, together with a deposit of Two Guineas, payable to the Bath Corporation, which will be returnable on receipt of a bona-fide Tender.

Bills of Quantities, Form of Tender and instructions regarding the delivery of Tenders will be forwarded as soon as possible after the above date. Drawings may be seen by appointment at the Architects' offices. The Corporation does not bind itself to accept the lowest or any Tender.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath.

EAST BARNET URBAN DISTRICT COUNCIL.

CONSTRUCTION OF A BLOCK OF 18 DWELLINGS FOR ELDERLY PEOPLE.

CONTRACT NO. 930.

FIXED-PRICE TENDERS are invited for the ERECTION OF A TWO-STORY BLOCK OF 18 SINGLE-ROOM DWELLINGS, WARDEN'S FLAT, and incidental works, at BULWER ROAD, New Barnet. Forms of Tender, Bills of Quantities, etc., may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender. Drawings are available for inspection at the Town Hall.

Tenders, sealed in the envelopes provided, must be received by not later than FRIDAY, the 9th September, 1960.

The lowest or any Tender will not necessarily be accepted.

WHITTFLESEY URBAN DISTRICT COUNCIL.

SEWAGE DISPOSAL WORKS EXTENSIONS.

CONTRACT NO. 8.

TENDERS are invited, on a FIXED-PRICE BASIS, for the CONSTRUCTION OF EXTENSIONS to the COUNCIL'S EXISTING SEWAGE DISPOSAL WORKS, including the Modification of Certain Existing Units.

Contractors desirous of tendering may obtain copies of the Form of Tender, General Conditions, Specification and Bill of Quantities from the office of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, 82 Victoria Street, Westminster, S.W.1, upon deposit of Five Guineas (cheque, made payable to the Whitlflesey Urban District Council), which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the offices of the Consulting Engineers or at the office of the Surveyor to the Council, Council Offices, Whitlflesey, any day during ordinary office hours.

Tenders, endorsed "Tender—Whitlflesey Drainage—Contract No. 8," in plain sealed envelopes, must bear any name or mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 31st August, 1960.

The Council do not bind itself to accept the lowest or any Tender.

H. KEWISH,
Clerk of the Council.

Council Offices,
Whitlflesey,
Near Peterborough.
3rd August, 1960.

BATHAM RURAL DISTRICT COUNCIL.

CORSTON AND NEWTON ST. LOE SEWERAGE SCHEME.

FIXED-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of approx. 4.653 lin. yd. of 6 in. dia. and 416 lin. yd. of 9 in. dia. GLAZED STONEWARE PIPE SEWERS with necessary Manholes and appurtenant Works in the Parishes of CORSTON and NEWTON ST. LOE, together with the CONSTRUCTION OF A SEWAGE DISPOSAL WORKS, comprising screen Chamber, Two Upward Flow Primary Settlement Tanks, Two Circular Filters, Two Humus Tanks, and Six Sludge Beds, together with a Small Pump House, in the Parish of CORSTON.

The General Conditions of Contract and Specification, Bills of Quantities and Form of Contract may be obtained from the Engineer and Surveyor, Council Offices, Westgate Buildings, Bath, where the Drawings may be inspected on and after the 10th AUGUST, 1960, on payment of Three Guineas as a deposit, to be refunded after receipt of a bona-fide Tender and the return of all documents.

The Tender is to be delivered, in the envelope provided, to the undersigned by not later than 12 o'clock Noon on WEDNESDAY, the 7th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. G. FOXTON PRICE,
Clerk of the Council.

Council Offices,
Westgate Buildings,
Bath.
August, 1960.

CONTRACTS

ISLE OF ELY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

STRENGTHENING AND REPAIR OF EUXIMOOR BRIDGE, CHRISTCHURCH.

TENDERS are invited for the STRENGTHENING AND REPAIR OF THIS STEEL THROUGH-GIRDER BRIDGE OF 55ft. span x 12ft. wide, which involves the Addition of Struts and Rakers to the Girders, a new Reinforced Concrete Deck Slab and a Concrete Face to the existing Brick Abutments and Wing Wall. Plans, Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the County Surveyor, County Hall, March, Cambs.

Tenders to be delivered to the undersigned, in the envelope provided, not later than Noon on MONDAY, 29th August, 1960.

The County Council do not bind themselves to accept the lowest or any Tender.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March, Cambs.

BOROUGH OF WREXHAM.

HOLT STREET IMPROVEMENT—MARKET STREET TO FARNDON STREET.

FIXED-PRICE TENDERS are invited for the WIDENING AND RECONSTRUCTION OF THE ABOVE STREET.

Drawings and General Conditions of Contract may be inspected at, and Specification, Bills of Quantities obtained, from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the sealed envelope provided, must be delivered to the undersigned not later than 12 Noon, 15th AUGUST, 1960.

The Council do not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham,
July, 1960.

BOROUGH OF WREXHAM.

RESURFACING OF CARRIAGEWAYS.

CHESTER STREET (A.483)—BODFRYD TO HIGH STREET.
RUABON ROAD (A.483)—EMPRESS ROAD TO CEMETERY ENTRANCE.

FIXED-PRICE TENDERS are invited from experienced contractors for the MACHINE-LAYING OF approx. 4,800 sq. yd. of HOT ROLLED ASPHALT CARPETING 1½ in. thick, together with incidental works of Taking-up existing Asphalt Surfacing, Repairing Concrete Base and Expansion Joints, Burning-off, Provision of Underlay, and the Resetting of Manholes, Gullies and Boxes to new levels.

The General Conditions of Contract may be inspected and Specification, Bills of Quantities and Form of Tender obtained from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the sealed envelope provided, must be delivered to the undersigned not later than 12 Noon on MONDAY, 15th August, 1960.

The Council do not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham,
July, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

PUBLIC CONVENIENCE—BROADWAY, HOUNSLOW.

TENDERS are invited for the ERECTION OF A PUBLIC CONVENIENCE. Firms wishing to tender should apply to the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow. Tender documents will be forwarded on or about 18th August, 1960. Tenders must be delivered to me, in the envelope provided, by 10 a.m. on 10th SEPTEMBER, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

URBAN DISTRICT COUNCIL OF EAST BARNET.

HIGHWAYS ACT, 1959—SECTION 174.

CONTRACT NO. 931.

MAKING-UP OF LATIMER ROAD (PART).

FIXED-PRICE TENDERS are invited for ROADWORKS, comprising the Construction of approx. 720 super. yd. of Carriageway with 3 in. Bituminous Macadam Surface; 360 super. yd. Artificial Stone Paved Footways; together with ancillary works, including 90 lin. yd. 6 in. dia. Surface Water Sewer. Forms of Tender, Supplementary Conditions of Contract, Specification and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., upon payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than MONDAY, 29th August, 1960.

The lowest or any Tender will not necessarily be accepted.

URBAN DISTRICT OF WESTHOUGHTON.

CENTRAL PARK DEVELOPMENT.

TENDERS are invited for the CONSTRUCTION AND LAYING OUT OF approx. 10 Acres of PUBLIC PARK in the Urban District. The Contract is essentially of a type usually carried out by specialists in playing field and similar work, and involves making Tennis Courts, Bowling Greens and Paths, as well as Fencing, Landscaping, and incidental work.

Particulars for tendering may be obtained from the Surveyor, Town Hall, Westhoughton, and applications for the same should be accompanied by a deposit of Ten Guineas, which will be returned on receipt of a Tender.

Tenders, in plain sealed envelopes addressed to the CLERK OF THE COUNCIL, Town Hall, Westhoughton, Bolton, bearing the words "Tender for Central Park," but not bearing any name or mark indicating the sender, to be delivered not later than 5th SEPTEMBER, 1960.

The lowest or any Tender will not necessarily be accepted.

CONTRACTS

BOROUGH OF UXBRIDGE.

CONTRACT NO. 453.

PEACHEY LANE IMPROVEMENT.

The BOROUGH COUNCIL invite TENDERS for the ABOVE CONTRACT from experienced contractors. The work will comprise the Reconstruction in Hardcore with Tarmacadam and Bitumen Macadam Surfacing of approx. 960 sq. yd. of Carriageway, the Laying of 130 yd. of 9 in. Surface Water Sewer, together with Kerbing Footway and ancillary works.

Plans may be seen, and Specification, Form of Tender and Bills of Quantities may be obtained from HAROLD E. G. STRIPP, A.M.I.C.E., Borough Surveyor, 263 High Street, Uxbridge, and must be returned to the undersigned not later than 10 a.m. WEDNESDAY, the 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. RONALD WEST,
Town Clerk.

Council Offices,
263 High Street,
Uxbridge, Middx.

BOROUGH OF AYLESBURY.

NEW SEWAGE DISPOSAL WORKS.

TENDERS are invited for the SUPPLY OF FILTER MEDIUM to the NEW SEWAGE DISPOSAL WORKS at present under construction at RABANS LANE, AYLESBURY, Buckinghamshire.

The approx. quantities are as follows: (1) Nominal size 1½ in.—10,500 cu. yd.; (2) Nominal size 2½ in.—3,000 cu. yd.

It is expected that delivery would be required to commence in the last quarter of 1960 or the first quarter of 1961.

Specification and Conditions of Contract may be obtained from the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufton Street, Westminster, S.W.1, on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender (cheques should be made payable to the Borough Treasurer, but sent to the Consulting Engineers with the application for documents).

Tenders should be delivered to the Offices of the Consulting Engineers not later than 12 Noon on THURSDAY, 25th August, 1960.

R. D. W. MAXWELL,
Town Clerk.

Town Hall,
Aylesbury, Bucks.
July, 1960.

BOROUGH OF DARTFORD.

PRIVATE STREET WORKS.

MAKING-UP OF PART OF SUMMERHOUSE DRIVE.

TENDERS are invited for MAKING-UP PART OF SUMMERHOUSE DRIVE, 830ft. in length, to an average width of 40ft. The works will include Site Excavation and Reclamation or Formation, Carriageway Construction with Hardcore and Machine-laid Bitumen Macadam, Kerbing, Channelling, Precast Concrete Paving, Surface Water Gullies and Connections.

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide tender, and the return of all documents other than one copy of the Bills of Quantities.

The Tender, in a plain sealed envelope endorsed "Making-up of Summerhouse Drive," must bear no mark or indication of the tenderer, must be delivered to me not later than 12 Noon on TUESDAY, the 6th of September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

THOMAS ARMSTRONG,
Town Clerk.

Council Offices,
Dartford.

SWANAGE URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959. THE CODE OF 1892.

MAKING-UP OF REDCLIFF ROAD (PARTS I AND II) AND STREET LEADING TO BALLARD ESTATE.

TENDERS are invited for the ABOVE STREET WORKS, which include a total of approx. 5,000 sq. yd. of Tarmacadam and Carpet Coat Work, 1,700 sq. yd. of Stone Foundation, and 600 lin. yd. of New Kerbing.

Plans may be inspected, and copies of Specification and Bills of Quantities obtained from MR. P. S. BROWNE, F.R.I.C.S., M.I.Mun.E., Engineer and Surveyor, Town Hall, Swanage.

Tenders, in plain sealed envelopes endorsed "Tender for Street Works," must be delivered to the undersigned not later than Noon on SATURDAY, 3rd September, 1960.

The Council do not bind itself to accept the lowest or any Tender and reserves the right to divide the Contract.

W. A. F. BAILE,
Clerk of the Council.

Town Hall,
Swanage.
5th August, 1960.

SOUTH CAMBRIDGESHIRE RURAL DISTRICT COUNCIL.

EASTERN AREA WATER SUPPLY.

MAINLAYING—CONTRACT NO. 4.

TENDERS are invited for the CONSTRUCTION, TESTING AND MAINTENANCE OF approx. 4½ miles of ASBESTOS-CEMENT WATER MAINS, together with Valves, Fittings, and all other works incidental thereto.

A copy of the Contract documents may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, 59 Tufton Street, Westminster, S.W.1, upon payment of a deposit cheque for Five Guineas, made payable to the Council, which will be returned on receipt of a bona-fide Tender and the return of all documents. The Form of Tender and a priced Bill of Quantities must be delivered, in a sealed envelope endorsed "Tender for Mainlaying—Contract No. 4," to the undersigned before Noon on TUESDAY, 30th August, 1960.

The Plans and Drawings may be seen during normal working hours at the Offices of the Consulting Engineers or the Council.

The Council do not bind themselves to accept the lowest or any Tender.

F. H. M. SARGENT,
Clerk of the Council.

County Hall,
Noton Street,
Cambridge.

CONTRACTS

BOROUGH OF DARTFORD.
GROUP "A" STREET LIGHTING—TOWN CENTRE APPROACH ROADS.

TENDERS are invited for the SUPPLY and ERECTION of 91 COMPLETE LIGHTING UNITS, comprising 25ft. Reinforced Concrete Columns and 400-W MBFU Lamps and Lanterns. The work includes Removal of existing Lighting Equipment.

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents supplied, other than one copy of the Bill of Quantities.

Tenders, in a plain sealed envelope marked "Street Lighting—Town Centre Approach Roads," but bearing no other mark or indication of the tenderer, must be received by me not later than 12 Noon of TUESDAY, the 6th of September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

THOMAS ARMSTRONG,
Town Clerk.

Council Offices,
Dartford.

BOROUGH OF CHATHAM.**HARDSTOWN REDEVELOPMENT AREA.**
ROADS AND SEWERS—PART II.

TENDERS are invited for the ABOVE WORKS, consisting of approx. 5,000 cu. yd. of Excavation, 2,500 sq. yd. of Bituminous Macadam Carriageway, Foul and Storm Sewers, Gravity and Reinforced Concrete Retaining Walls, and ancillary Works.

Form of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from, and the Drawings inspected at, the office of MR. J. A. T. RICHARDS, Borough Engineer and Surveyor, Town Hall, Chatham, on payment of a deposit of Three Guineas, which will be refunded on receipt of a bona-fide Tender or the return of all issued documents before the closing date for receipt of Tenders.

Tenders must be delivered in accordance with the conditions on the Form of Tender to the undersigned not later than 12 Noon on WEDNESDAY, 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROWLAND NEWNES,
Town Clerk.

Town Hall,
Chatham,
July, 1960.

CITY OF BIRMINGHAM.**TO PUBLIC WORKS CONTRACTORS.**

The Public Works Committee invite TENDERS, on a FIXED-PRICE BASIS, for a Measure and Value Contract for the RECONSTRUCTION OF COLEY'S LANE, NORTHFIELD.

Copies of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of £2 2s. at the Office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Plans for the work can be seen at Room 339, Civic Centre, Birmingham, on payment of 10s. per set. Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room 8.21), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 24th August, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF CARDIFF.**CORPORATION WATERWORKS.****LLANDEGFEDD WATER SCHEME.**

TENDERS will shortly be invited from suitable contractors for the CONSTRUCTION of the LLANDEGFEDD IMPOUNDING RESERVOIR and ancillary Works, the main feature being an Earthen Embankment, 120ft. high and 1,150ft. long.

Contractors who wish to be considered for inclusion in a selected list of tenders should apply to the Corporation's Consulting Engineers, MESSRS. ROFE AND RAFFETY, 9 Brewer's Green, London, S.W.1, before 22nd AUGUST, 1960, giving details of their experience on similar projects.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff,
22nd July, 1960.

CITY OF SALFORD.**CULVERTING OF SINGING CLOUGH BROOK AT SINGING CLOUGH TIP, KEARSLEY.**

FIRM-PRICE TENDERS are invited for the CULVERTING OF PART OF SINGING CLOUGH BROOK, KEARSLEY, with approx. 220 lin. yd. of 42in. dia. CONCRETE PIPES, complete with Reinforced Concrete Surround, the Construction of Two Large Manholes in Reinforced Concrete, and ancillary Drainage Works.

For the payment of £1 1s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn, Specifications, Bill of Quantities and Forms of Firm-price Tender may be obtained from, and General Conditions and Drawings inspected at, the City Engineer and Surveyor's Office, Town Hall, Salford, 3, before 22nd AUGUST, 1960, when they will be opened. Tenders, in sealed envelopes endorsed "Culverting of Singing Clough Brook," are to be addressed to the undersigned, by whom they must be received not later than 10 a.m., MONDAY, 5th September, 1960.

R. RIBBLEDALE THORNTON,
Town Clerk.

NORTH LONSDALE RURAL DISTRICT COUNCIL.**SUNBRICK WATER SUPPLY SCHEME.**

TENDERS are invited for the LAYING of approx. 1,100 lin. yd. of 2in. dia. ASBESTOS-CEMENT WATER MAIN, CONSTRUCTION of a SMALL PUMP HOUSE and a 6,000-gallon capacity R.C. STORAGE TANK at SUNBRICK, which is approx. four miles south of Ulverston.

A copy of the Bill of Quantities and Specification may be obtained from, and the Plans inspected at, the Office of the Council's Engineer, MR. H. WHITTAKER, M.I.Mun.E., A.M.I.P.H.E., 24 Queen Street, Ulverston.

Tenders, in sealed envelopes endorsed "Sunbrick Water Supply," are to be lodged with the undersigned not later than 12 Noon, THURSDAY, 25th August, 1960.

F. D. YOULE,
Clerk of the Council.

24 Queen Street,
Ulverston.

CONTRACTS

BRECONSHIRE COUNTY COUNCIL.
NEW COUNCIL CHAMBER—ELECTRICAL INSTALLATIONS.

TENDERS are to be invited from members of the Electrical Contractors' Association (Incorporated) or members of the National Register of Electrical Installation Contractors, for the ELECTRICAL INSTALLATIONS of the ABOVE-MENTIONED PROJECT.

The Building will comprise Council Chamber, Public Gallery, Ante-room, Committee Room, Chairman's Room, Eight Offices, Boiler House, etc. The Electrical Installation will comprise Systems of Lighting and Power, Clocks and Fire Alarms, Internal and External Telephones, Lightning Protection, etc.

All electrical contractors who are eligible and desirous of tendering for the Sub-contract are invited to submit their names and particulars on a form to be obtained from, and returned to, the County Architect, Rhys Offords Brecon, not later than 12 Noon on 31st AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. M. S. WELLS,
Clerk of the County Council.

County Hall,
Brecon.

BOROUGH OF ALTRINCHAM.**LEVELLING AND SEEDING OF LAND—GROVE LANE, TIMPERLEY.**

TENDERS are invited for the LEVELLING and SEEDING of approx. 4½ ACRES of LAND in GROVE LANE, TIMPERLEY, the work to be commenced after 1st January, 1961, and completed by 30th April, 1961.

The land may be inspected by appointment, and Specification obtained from the Parks Superintendent, John Leigh Park, Oldfield Road, Altrincham.

Tenders must be delivered to the undersigned not later than 12 Noon on 3rd SEPTEMBER, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

E. GRAHAM THOMAS,
Town Clerk.

Town Hall,
Altrincham.

CITY AND COUNTY OF BRISTOL.**RIDGEWAY ROAD FOOTBRIDGE.**

TENDERS are invited for the FOLLOWING:—

(a) The Supply of Prestressed Concrete Beams, Precast Concrete Superstructure Units, Tubular Steel Parapets and Parapet Panels for Above Bridge; and/or

(b) The Erection of Above Beams and Units, Construction of Concrete Piers and Abutments, approx. 50 lin. yd. Approach Footpath Works, approx. 40 lin. yd. Sewerage Works, approx. 35 lin. yd. Fencing, and other ancillary Works.

Successful tenderer for (a) will be appointed as sub-contractor to successful tenderer for (b). Conditions of Contract, Specification and Bill of Quantities from CITY ENGINEER AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1.

Tenders, returnable in envelope provided, endorsed "Ridgeway Road Footbridge (Sub-Contract)," or "Ridgeway Road Footbridge (Main Contract)," but bearing no mark indicating sender, by 10 a.m., 8th SEPTEMBER.

CITY OF CANTERBURY.**RECONSTRUCTION OF UNION STREET, A.28.**

TENDERS are invited for the RECONSTRUCTION of UNION STREET, a total length of approx. 210yd. The Works consist of the Realigning and Widening of the Existing Carriageway to 30ft. and its Reconstruction and Surfacing in Bituminous Macadam and Cold Asphalt, the Provision and Laying of 460yd. (approx.) of 3in. by 10in. Precast Kerbs and 1,200 sq. yd. (approx.) of Precast Paving to the Footways, the Extension of the 9in. dia. Surface Water Sewer, and all other incidental Works.

Specification, Bills of Quantities and Form of Tender may be obtained from J. E. RHODES, ESQ., City Engineer, Municipal Buildings, Dane John, Canterbury.

Drawings and Conditions of Contract may be inspected at the above address during normal office hours.

Tenders, in plain sealed envelopes endorsed "Reconstruction of Union Street, A.28," to be delivered to the undersigned not later than First Post on THURSDAY, 8th September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

(Signed) J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

THE URBAN DISTRICT COUNCIL OF BISHOP AUCKLAND.**ERECTION OF 85 HOUSES AND NINE BUNGALOWS, WOODHOUSE CLOSE ESTATE—SCHEME NO. 28.**

TENDERS are invited for the ERECTION of 85 HOUSES AND NINE BUNGALOWS on the WOODHOUSE CLOSE ESTATE, BISHOP AUCKLAND, together with ancillary Works.

Contractors wishing to Tender should submit their names to the Council's Surveyor, The Elms, Silver Street, Bishop Auckland, together with a deposit of £2 2s., when Tender documents will be forwarded as soon thereafter as possible. The deposit will be returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be delivered to the undersigned, in the envelope provided, by SATURDAY, 24th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. R. PASSEY,
Clerk of the Council.

Old Bank Chambers,
Market Place,
Bishop Auckland,
2nd August, 1960.

BURGESS HILL URBAN DISTRICT COUNCIL.

The Council invites TENDERS for the SUPPLY and DELIVERY of a NEW 3-TON LORRY.

The Council is prepared to consider any model at present supplied by manufacturers, provided local requirements are met.

Details of requirements and Form of Tender can be obtained from the Engineer and Surveyor to the Council, Council Offices, 32 Church Road, Burgess Hill.

Tenders should be sent in plain envelopes endorsed "Lorry," to the undersigned not later than the 20th AUGUST, 1960.

The Council does not bind itself to accept any Tender.

STANLEY JEFFS,
Clerk of the Council.

Council Offices,
32 Church Road,
Burgess Hill.

CONTRACTS

WIRRAL URBAN DISTRICT COUNCIL.
SUPPLY OF OIL FUEL.

TENDERS are invited for the SUPPLY and DELIVERY, as required, during the 12 months ending 31st August, 1961, of GAS-OIL (35 secs.) to the Council Offices, Heswall.

Forms of Tender and further particulars may be obtained on application to the Engineer and Surveyor, Council Offices, Heswall.

W. F. ROBERTS,
Clerk of the Council.

Council Offices,
Heswall, Wirral.

BEACONSFIELD URBAN DISTRICT COUNCIL.**NORTH DRIVE FOUL SEWER.**

TENDERS are invited for the CONSTRUCTION of approx. 400 lin. yd. of 6in. dia. G.S.W. FOUL SEWER, together with approx. 160 lin. yd. of 4in. dia. G.S.W. LATERAL CONNECTIONS thereto, and a number of PRECAST CONCRETE MANHOLES.

The sewer is to be laid in, and alongside, an existing concrete carriageway and tarmac footpaths. Copies of the Specification, Bill of Quantities, etc., and the Drawings may be obtained from the undersigned on receipt of a deposit of Two Guineas, which will be refunded on the receipt of a bona-fide Tender.

All Tenders must be returned to the Clerk of the Council at the address below by 12 Noon on TUESDAY, the 6th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. V. HARRIS, A.M.I.Mun.E.,
Engineer and Surveyor.

Council Hall,
Beaconsfield, Bucks.

30th July, 1960.

AXMINSTER RURAL DISTRICT COUNCIL.**HAWKCHURCH SEWERAGE AND SEWAGE DISPOSAL SCHEME.**

The Council invite TENDERS for the CONSTRUCTION of approx. 1,000yd. of 6in. dia. S.G.W. SEWERS and MANHOLES, together with SMALL SEWAGE DISPOSAL WORKS, comprising Screening Chamber, Settling Tanks, Filter and Sand Treatment, and other incidental Works.

Contractors wishing to Tender should apply for documents to the Council's Consulting Engineers, MESSRS. JOHN H. HAISTE AND PARTNERS, 8-10 Southgate Street, Gloucester, enclosing a deposit cheque value Three Guineas, made payable to the Axminster Rural District Council, which will be refunded upon receipt of a bona-fide Tender and the return of all the documents supplied.

Drawings may be inspected at the offices of the Engineers or at the Council Offices during normal office hours.

Sealed Tenders, endorsed "Tender for Hawkchurch Sewerage Scheme," addressed in a plain package, should be delivered to the undersigned not later than Noon on MONDAY, 5th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. J. MIDWORTH,
Clerk of the Council.

Council Offices,
Oak House,
Axminster,
Devon.

30th July, 1960.

BARNSTABLE RURAL DISTRICT COUNCIL.**GOODLEIGH SEWERAGE AND SEWAGE DISPOSAL.**

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of about 1,100yd. of 6in. dia. STONEWARE SEWERS, together with MANHOLES, etc., and a small SEWAGE DISPOSAL WORKS at GOODLEIGH, near Barnstaple, North Devon.

Contract documents may be inspected at the offices of the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, Chartered Civil Engineers, 1 Glenside, College Avenue, Mannamade, Plymouth, on and after Monday, 15th August. Copies thereof will be supplied on application to the Consulting Engineers on payment of a deposit of £3 3s., which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents, and an undertaking to return the Drawings in any event. Remittances should be made payable to the Barnstaple Rural District Council.

Tenders, on the form provided, together with a fully priced Bill of Quantities, are to be delivered to the undersigned in a plain sealed envelope endorsed "Tender for Goodleigh Sewerage," not later than Noon on FRIDAY, 8th September, 1960. The original documents are to be returned to the Engineers.

The Council does not bind itself to accept the lowest or any Tender, and no payment will be made for any Tender submitted.

E. HARWOOD,
Clerk of the Council.

Council Offices,
The Red House,
Castle Street,
Barnstaple,
Devon.

AMMAN VALLEY JOINT SEWERAGE BOARD.

The above Board is about to undertake a RECONSTRUCTION SCHEME involving the Works of Sewerage DESCRIBED BELOW and the Construction of a new Sewage Disposal Works (Contract No. 2).

CONTRACT NO. 1:

TENDERS are invited, on a Fixed-price Basis, from suitably experienced contractors, for the FIRST OF THE CONTRACTS, which includes the CONSTRUCTION of 6,000 lin. yd. of Sewers varying from 12in. to 42in. in dia., mainly in Open-cut, together with certain Remedial Works, Alterations and Additions to the existing Sewer System, and Substantial River Protection Works.

Copies of the tendering document may be obtained from the Board's Consulting Engineers, C. D. C. BRAINE AND PARTNERS, Jotham's Buildings, 26/27 St. Mary Street, Cardiff, upon deposit of Five Guineas (cheque made payable to the Board), which sum will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the Offices of the Consulting Engineers or at the Offices of the undersigned during business hours.

Tenders, endorsed "Amman Valley Joint Sewerage—Contract No. 1," in plain sealed envelopes not bearing any mark or name indicating the sender, must be delivered to the undersigned not later than Noon on WEDNESDAY, the 21st September, 1960.

The Board does not bind itself to accept the lowest or any Tender.

M. H. EVANS,
Clerk of the Board.

49 College Street,
Ammanford, Carmar.
August, 1960.

CONTRACTS

COUNTY BOROUGH OF DEWSBURY.

MASS CONCRETE RETAINING WALL—
CARLTON ROAD INFANTS' SCHOOL.

TENDERS are invited for the CONSTRUCTION of a MASS CONCRETE RETAINING WALL, length 88ft., average height 9ft. and average thickness 1ft. 9in.

Plans and Conditions of Contract may be seen at, and Specification, Bill of Quantities and Form of Tender obtained from, the Office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Retaining Wall—Carlton Road Infants' School," must be delivered to me by Noon on MONDAY, 5th September, 1960.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury,
22nd July, 1960.

BOROUGH OF KING'S LYNN.

HIGHWAYS ACT, 1959.

NEW ROAD AND DENMARK ROAD—
PRIVATE STREET WORKS.

TENDERS on a Fixed-price Basis, are invited for the CONSTRUCTION of approx. 1,000 sq. yd. of CARRIAGEWAY and 454 lin. yd. of SEWERS, together with ancillary works, at New Road and Denmark Road, King's Lynn.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from, and General Conditions of Contract and Drawings inspected at, the Office of the Borough Engineer, Clifton House, 17 Queen Street, King's Lynn, upon payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelope provided, must be returned to the undersigned not later than Noon on 6th SEPTEMBER, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn.

ILKLEY URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

FIXED-PRICE TENDERS are invited for the MAKING-UP of OAKRIDGE AVENUE, Menston, comprising approx. 1,526 sq. yd. of Tarmacadam Carriageway and Footways, together with Drainage Works.

Plans and Sections may be inspected, and copies of the Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained, at the Office of the Engineer and Surveyor, Chantry Drive, Ilkley.

Tenders, endorsed "P.S.W.—Oakridge Avenue," to be delivered in plain sealed envelopes, to the undersigned, not later than 12 Noon on SATURDAY, 27th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. E. TOWNEND,
Clerk of the Council.

Town Hall,
Ilkley,
27th July, 1960.

ILKLEY URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

FIXED-PRICE TENDERS are invited for the MAKING-UP of SOUTHFIELD ROAD, Burley, comprising approx. 4,231 sq. yd. of Tarmacadam Carriageway and Footways, together with Drainage Works.

Plans and Sections may be inspected, and copies of the Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained, at the Office of the Engineer and Surveyor, Chantry Drive, Ilkley.

Tenders, endorsed "P.S.W.—Southfield Road," to be delivered in plain sealed envelopes, to the undersigned, not later than 12 Noon on SATURDAY, 27th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. E. TOWNEND,
Clerk of the Council.

Town Hall,
Ilkley,
27th July, 1960.

ILKLEY URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959.

FIXED-PRICE TENDERS are invited for the MAKING-UP of ENDOR CRESCENT, Burley-in-Wharfedale, comprising approx. 2,151 sq. yd. of Tarmacadam Carriageway and Footways, together with Drainage Works.

Plans and Sections may be inspected, and copies of the Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained, at the Office of the Engineer and Surveyor, Chantry Drive, Ilkley.

Tenders, endorsed "P.S.W.—Endor Crescent," to be delivered in plain sealed envelopes, to the undersigned, not later than 12 Noon on SATURDAY, 27th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. E. TOWNEND,
Clerk of the Council.

Town Hall,
Ilkley,
27th July, 1960.

WIGSTON URBAN DISTRICT COUNCIL.

ROAD IMPROVEMENT WORKS.

TENDERS are invited for the CARRYING OUT OF CARRIAGEWAY, FOOTPATH AND SURFACE WATER DRAINAGE WORKS for the RECONSTRUCTION of GLENGATE, South Wigston (approx. 210 lin. yd.).

Particulars, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor at the address below, on payment of a deposit of £3 3s., which is refundable on receipt of a bona-fide Tender. Cheques should be made payable to Wigston Urban District Council.

Tenders to be delivered to the undersigned not later than 12 Noon on 31st AUGUST, 1960.

W. H. GUNNING,
Clerk of the Council.

Council Offices,
Wigston,
Leicester.

CONTRACTS

DENBIGHSHIRE COUNTY COUNCIL.

HIGHWAYS ACT, 1959.

LLEWELYN TERRACE AND LLEWELYN AVENUE,
GLAN CONWAY.

FIXED-PRICE TENDERS are invited for MAKING-UP the ABOVE-MENTIONED ROAD, involving the Construction of approx. 1,150 sq. yd. of Tarmacadam Carriageways, together with Kerbing, Footway, Surface Water Drainage, and other incidental works.

Copies of the Contract Drawings may be inspected at the Office of the County Surveyor, 46 Clwyd Street, Ruthin, from whom copies of the Form of Tender, General Conditions of Contract, Specification and Bills of Quantities may be obtained on payment of a deposit of £2 2s., which will be returned only on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Private Street Works," must be received by the undersigned not later than SATURDAY, 3rd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. E. BUFTON,
Clerk of the County Council.

County Offices,
Ruthin.

INVERNESS COUNTY COUNCIL.

TENDERS are invited for the CONSTRUCTION of an 8,000-g.p.d. COMBINED FILTER and TANK and about FOUR MILES of 3in., 2in. and 1½in. A.C. or P.V.C. PIPING at TARSKAIVAIG, SLEAT, SKYE, also about 5,000 yd. of 2in. A.C. or P.V.C. PIPING at IDRIGILL, NORTH-WEST SKYE. Contract documents from County Water Engineer, County Buildings, Inverness. Site meetings on Tuesday, 9th August, from Dam at Loch Dhugall, Armadale-Tarskavaig Road, at 2.30 p.m.; and Wednesday, 10th August, from Uig Pier, at 10.30 a.m.

Tenders, endorsed "Tarskavaig Water Supply" or "Idrigill Water Supply," by 23rd AUGUST, to COUNTY CLERK.

BOROUGH OF MAIDSTONE.

EXTENSIONS TO AYLESFORD SEWAGE DISPOSAL
WORKS.

RECIRCULANT PUMPING STATION.

WM.18, CONTRACT M11.

FIRM-PRICE TENDERS are invited for the SUPPLY AND ERECTION OF AYLESFORD SEWAGE WORKS OF TWO EFFLUENT RECIRCULATION PUMPS, each rated at 4 m.g.d.; ONE DITTO at 2 m.g.d.; and ONE DITTO at 1 m.g.d., together with Humus and Top Water Pumps, Pressure Effluent Pumps, Motors and Control Gear, Station Pipework, Valves, etc.

Particulars and Specifications obtainable from, and Plans inspected at, the Offices of the Consulting Engineer, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, Westminster, S.W.1, on and from Monday, 15th August, 1960, until Friday, 19th August, 1960, upon payment of a deposit of Five Guineas made payable to the Corporation, returnable for bona-fide Tender not subsequently withdrawn.

No Tender considered unless on the official form and delivered to the undersigned in plain envelope endorsed as stated in the documents, but bearing no indication of the sender, not later than MONDAY, 3rd October, 1960.

The Council do not bind themselves to accept any Tender.

T. SCHOLES,
Town Clerk.

Town Clerk's Office,
13 Tonbridge Road,
Maidstone, Kent.
August, 1960.

BOROUGH OF CHORLEY.

DEMOLITION WORKS.

TENDERS are invited for the DEMOLITION of approx. 85 PROPERTIES in the PRINCESS STREET CLEARANCE AREA.

Applications for the Tender documents should be made to the Borough Engineer, Town Hall, Chorley, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender. Conditions of Contract and Drawings may be inspected during normal office hours.

Tenders, suitably endorsed, must be delivered to the undersigned not later than 12 Noon on the 20th AUGUST, 1960.

ROBERT POTTER,
Town Clerk.

Town Hall,
Chorley.

BOROUGH OF DUNSTABLE.

SURFACE DRESSING, 1960.

TENDERS are invited for the DRESSING of some 62,000 sq. yd. of CARRIAGEWAYS and FOOTWAYS with TAR and SLAG CHIPPINGS.

Contract documents may be obtained on application to the Borough Engineer, Municipal Offices, Dunstable.

Tenders, in plain sealed envelopes endorsed "Surface Dressing 1960," are to be delivered to the undersigned not later than MONDAY, 22nd August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable, Beds.
29th July, 1960.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 929.

RECONSTRUCTION OF FOUR HARD TENNIS COURTS AND RENEWAL OF CHAIN LINK SURROUND AT OAK HILL PARK.

FIXED-PRICE TENDERS are invited from specialist contractors, experienced in the Construction of Tennis Courts, for the RECONSTRUCTION in BITUMEN MACADAM OF FOUR SEMI-POROUS, NON-ATTENTION TENNIS COURTS, together with the RENEWAL of 9ft. HIGH TENNIS COURT SURROUND in Plastic-coated Galvanised Chain Link Fencing.

Forms of Tender, Supplementary Conditions of Contract, Specification and Bills of Quantities, may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelope provided, must be received by not later than SATURDAY, 27th August, 1960.

The lowest or any Tender will not necessarily be accepted.

CONTRACTS

MIDDLESEX COUNTY COUNCIL.

HARLINGTON ROAD, B.464.

CONSTRUCTION OF ROUNDABOUT AT THE
INTERSECTION WITH WEST DRAVTON ROAD,
B.465, IN THE BOROUGH OF UXTON.

TENDERS are invited for the CONSTRUCTION of a ROUNDABOUT, the Carriageway of which will be of Lean Concrete surfaced with Asphalt. The approx. area of the Carriageway is 5,000 sq. yd. Works also include the Construction of Surface Water Drains, Kerbing, Footways, and ancillary works.

Contract documents can be obtained, and Plans examined, at the Offices of the County Engineer and Surveyor, Middlesex House, 20 Vauxhall Bridge Road, London, S.W.1, upon deposit of £10, returnable on submission of a bona-fide Tender.

Tenders are to be returned to the undersigned, in the envelopes provided, by not later than Noon on WEDNESDAY, 31st August, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

KENNETH GOODACRE,
Clerk of the County Council.

The Guildhall,
Westminster,
London, S.W.1.

COUNTY BOROUGH OF OF
MIDDLESBROUGH.PROPOSED ERECTION OF CHILDREN'S HOME,
CROFT AVENUE, MIDDLESBROUGH.

TENDERS are invited for the ERECTION of a CHILDREN'S HOME in CROFT AVENUE, Middlesbrough.

Contract period nine months. Bills of Quantities from the Borough Engineer, Municipal Buildings, Middlesbrough. Deposit Two Guineas.

Tenders to be received by the TOWN CLERK on or before TUESDAY, 13th September, 1960.

CHERTSEY URBAN DISTRICT COUNCIL.

MISCELLANEOUS HIGHWAY WORKS, 1960-61.

TENDERS are invited, on a Fixed-price Basis, for CARRYING OUT PERMANENT TRENCH REINSTATEMENTS IN CARRIAGEWAYS AND FOOTWAYS throughout the Urban District area, and the Construction of Vehicle Crossings and other incidental works during the period ending 31st March, 1961.

Form of Tender, Specification and Schedule of Rates and Prices may be obtained from, and the Conditions of Contract examined at, the Office of the Engineer and Surveyor, Surveyor's Department, The Orchard, Staines Lane, Chertsey, Surrey, upon payment of One Guinea deposit, which will be returned on receipt of a bona-fide Tender and return of the documents.

Tenders, in plain sealed envelopes endorsed "Miscellaneous Highway Works," must be delivered to the undersigned by Noon on FRIDAY, 2nd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

A. REX HERBERT,
Clerk of the Council.

Council Offices,
18 Guildford Street,
Chertsey, Surrey,
August, 1960.

URBAN DISTRICT COUNCIL OF
CUCKFIELD.ROADWORKS, ETC.—VALE ROAD AND SHEPPEYS,
HAYWARDS HEATH.

The Council invite TENDERS for the FOLLOWING WORKS:

- (i) 3,500 sq. yd. of Concrete Carriageway;
- (ii) 300 lin. yd. of Surface Water Sewers;
- (iii) 640 lin. yd. of 24in. dia. Surface Water Culvert.

Plans, Bills of Quantities, a Specification and a Form of Tender may be obtained from the Council's Surveyor on payment of Two Guineas, which will be refunded on submission of a bona-fide Tender or the return of the documents.

Tenders, sealed in plain envelopes to be provided and endorsed "Tenders—Roadworks—Vale Road and Sheppeys," but bearing no name or mark of the sender, must be delivered to the undersigned at the address below not later than Noon on SATURDAY, 27th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and a Tender submitted otherwise than as directed will be rejected.

J. A. EVANS,
Clerk of the Council.

Council Offices,
Oaklands,
Haywards Heath,
28th July, 1960.

ASHTON-IN-MAKERFIELD URBAN
DISTRICT COUNCIL.

SEWAGE DISPOSAL WORKS.

The Council invite TENDERS from contractors experienced in similar works for the CONSTRUCTION of the FOLLOWING WORKS in one contract—

- (1) New Sewage Disposal Works for population exceeding 20,000, including Seven Circular Reinforced Concrete Tanks, 40ft. and 45ft. dia., up to 14ft. in depth, Four 85ft. dia. Percolating Filter Beds, Sludge Beds, Valve Chambers, Balancing Tanks, Recirculation Pumping Stations, Pipework, Manholes and other appurtenant works.
- (2) Sewerage at Bryn Gallet, including 725ft. of 15in. and 12in. Concrete Pipe Sewers, a Pumping Station, and 1,650 yd. of 7in. dia. Pumping Main, Manholes and other works.
- (3) 586 yd. of 18in. dia. C.I. Pumping Main.

Applications for the Form of Tender, Specification and Bill of Quantities should be made to the Council's Consulting Engineers, Messrs. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, with names of engineers for whom similar works have been constructed, together with a deposit cheque for £5 5s. made payable to the Ashton-in-Makerfield Urban District Council, which will be returned on receipt of a bona-fide Tender completed price out.

Drawings may be inspected either at the Office of the Consulting Engineers or the Council's Engineer during the usual office hours. Copies of the Drawings which must be returned when Tenders are submitted, may be obtained by payment of £5 5s. (non-refundable) to the Consulting Engineers.

Tenders shall be delivered in plain sealed envelopes, clearly marked "Sewage Disposal Works—Edge Green," to the undersigned not later than 9 a.m. on MONDAY, 19th September, 1960.

FRANK DEAN,
Clerk of the Council.

Town Hall,
Ashton-in-Makerfield.

CONTRACTS

BOROUGH OF ILFORD.
NEW ASSEMBLY HALL AND GYMNASIUM AT MAYFIELD SECONDARY SCHOOL FOR GIRLS.

TENDERS are invited for the ERECTION of a NEW ASSEMBLY HALL and GYMNASIUM at Mayfield Secondary School for Girls, Christie Gardens, Chadwell Heath.

Applications, in writing, for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided, endorsed "Tender for Mayfield School Hall and Gymnasium," with no mark of identification as to the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on 23rd AUGUST, 1960.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF ILFORD.
EXTENSIONS TO ST. AUGUSTINE'S SCHOOL.

TENDERS are invited for the ERECTION of a SCHOOL MEALS KITCHEN at St. Augustine's School, Cranbrook Road, Barkingside.

Applications, in writing, for the Form of Tender, Bills of Quantities and Drawings should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders, sealed in the envelope provided, endorsed "Tender for St. Augustine's School Meals Kitchen," with no mark of identification as to the sender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on 23rd AUGUST, 1960.

Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

BOROUGH OF ILFORD.
CONCRETE PANEL AND PALISADE FENCING TO PARKS AND CEMETERIES.

The CORPORATION invites TENDERS for the SUPPLY and ERECTION of approx. 2,620 lin. yd. of 6 ft. high CONCRETE PANEL FENCE and 370 lin. yd. of 5 ft. high CONCRETE PALISADE FENCE, together with the REMOVAL of EXISTING FENCES, in the Replacement of Boundary Fences to Parks and Cemeteries.

Conditions of Contract and Drawings may be inspected, and Special Conditions, Specification, Bills of Quantities and Form of Tender obtained, on application, in writing, to the Borough Engineer and Surveyor, Town Hall, Ilford.

Applications must be accompanied by a deposit of Two Guineas, which is returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, in an envelope which will be provided, bearing no indication of the tenderer, and endorsed "Tender for Concrete Fencing in Parks," must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 23rd AUGUST, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

URBAN DISTRICT COUNCIL OF CRAWFORD.

REPLACEMENT OF BATHS, SINKS, WINDOWS, AND INSTALLATION OF LAVATORY BASINS IN 970 PRE-WAR HOUSES IN CRAWFORD.

The Council propose to invite FIRM-PRICE TENDERS from selected contractors for the REPLACEMENT OF BATHS, SINKS, KITCHEN and BATHROOM WINDOWS, and the INSTALLATION OF LAVATORY BASINS IN 970 PRE-WAR DWELLINGS. Tender documents will be sent the end of September for return within 28 days.

This work is required to be carried out in the shortest possible time, and contractors should give full information concerning details of previous works, total number of tradesmen who would be employed, etc., and the estimated time required to complete the Contract.

Application for inclusion on the selected list should be received by the Engineer and Surveyor, Town Hall, Crawford, Kent, by 12 Noon, 31st AUGUST, 1960.

The Council do not bind themselves to include any applicants on the selected list.

G. B. HODGSON,
Clerk of the Council.

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

ERECTION OF NEW HOSPITAL AT WEXHAM PARK, SLOUGH, BUCKS.

Building contractors who are able to CARRY OUT WORKS to the value of approx. £2m., and wishing to TENDER for the ABOVE WORK, are invited to submit their names for inclusion on a selected list of tenderers.

The main hospital building will contain ward accommodation for 300 beds, Out-patients, Casualty, Operating and other Diagnostic and Service Departments. Except for a Seven-storey Administration Block of in-situ Reinforced Concrete Construction, the Building will be Single Storey. The Ward Units will have Load-bearing Brick Cross-walls with in-situ Reinforced Concrete Roofs. The remainder of the Building will, in the main, be of Precast Prestressed Concrete-framed Construction.

The Boiler House and Workshop Block and the Animal House will be Detached Single-storey Structures. There will also be a Detached Single-storey Nurses' Training School. The Residential Accommodation will consist of Hostel Blocks of Three Storeys and Three Houses.

The Architects responsible to the Board for this work are MESSRS. POWELL AND MOYA of 36 Great Smith Street, London, S.W.1, and the work will be carried out under their supervision.

It is anticipated that invitations to tender will be issued early in October, 1960, and that work on the site will commence in January, 1961.

Applications, together with details of works carried out and their value, should reach the REGIONAL ARCHITECT, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, not later than MONDAY, 29th August, 1960.

CONTRACTS

CITY OF PLYMOUTH.

WATER DEPARTMENT.

DOUSLAND FILTERS (1960-61).

TENDERS are invited for the PROVISION and INSTALLATION of PLANT and EQUIPMENT for a RAPID GRAVITY WATER FILTRATION WORKS having a capacity of 1½ m. gallons per day, at Dousland, Yelverton, South Devon.

The Specification and Particulars may be obtained from the Water Engineer on payment of a deposit of Two Guineas (cheque to be made payable to Plymouth Corporation), which will be refunded on receipt of a bona-fide Tender.

Tenders must be delivered to the Town Clerk, Pounds House, Faverell, Plymouth, in plain sealed envelopes endorsed "Tender-Dousland Filters," by Noon, FRIDAY, 16th September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

N. G. ELLIOT, M.Sc., M.I.C.E.,
City Water Engineer.

22 Portland Square,
Plymouth.

CITY OF CARDIFF.

RE-ADVERTISEMENT.

PENTREBANE ROAD HOUSING SCHEME—ADVANCE PREPARATION WORKS.

FIXED-PRICE TENDERS are invited for the ABOVE, comprising approx. 78,000 cu. yd. Bulk Excavation, 20,000 cu. yd. Filling, 55,000 sq. yd. New and Improved Carriageway, 12,500 lin. yd. of 30in./9in. dia. on-site and off-site Foul and Surface Water Sewers, and ancillary works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, at whose Office further Drawings and Conditions of Contract may be inspected, and to whom application should be made, accompanied by a deposit of the sum of £5 5s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Pentreban Road Housing Scheme—Advance Preparation Works," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than FRIDAY, 9th September, 1960.

The envelope must not bear the name of, or any mark indicating, the identity of the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

COLNE VALLEY URBAN DISTRICT COUNCIL.

TRUNK SEWER—ALTERATIONS TO MAIN STORM OVERFLOW AND RECORDING MANHOLES.

CONTRACT NO. A1.

TENDERS are invited for ALTERATIONS to existing STORM OVERFLOW and FLOW RECORDING MANHOLES, the INSTALLATION of CONTROL EQUIPMENT, Mechanically Raked Screens, and other appurtenant Works.

Tender documents may be obtained on payment of a deposit of One Guinea, returnable on receipt of a bona-fide Tender not subsequently withdrawn, from the Office of the Council's Engineer and Surveyor, Town Hall, Cross Street, Salfathwaite, Huddersfield.

Tenders, endorsed "Trunk Sewer Alterations," and enclosed in a plain sealed envelope, are to be returned to the undersigned not later than First Post on FRIDAY, 16th September, 1960.

J. W. LOMAS,
Clerk of the Council.

HOUGHTON - LE - SPRING URBAN DISTRICT COUNCIL.

SEGELECH SEWAGE DISPOSAL WORKS EXTENSIONS.

TO SEWERAGE CONTRACTORS.

The above Council invite TENDERS for the CONSTRUCTION of ONE SEDIMENTATION TANK of 75,000 gallons capacity, and TWO HUMUS TANKS totalling 44,440 gallons capacity, complete with Pipe-work and other appurtenant Works, at their SEGELECH SEWAGE DISPOSAL WORKS.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. D. BALFOUR AND SONS, Consulting Engineers, Caledonian Buildings, 145 Pilgrim Street, Newcastle upon Tyne, 1. Engineers for the works, accompanied by a cheque for £5, made payable to the above Council, not later than 22nd AUGUST, 1960, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and on return of all particulars after the Contract is let. It is essential that the contractor should have had considerable experience in similar works and be prepared to furnish good and approved security for the fulfilment of the Contract.

Tenders, in plain sealed envelopes endorsed "Tender for Extensions to Sewage Disposal Works," must reach the undersigned by a date to be given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

By Order,
G. F. LAMB,
Clerk of the Council.

Broadway,
Houghton-le-Spring,
Co. Durham,
29th July, 1960.

DURHAM COUNTY POLICE AUTHORITY.

TENDERS are invited for the SUPPLY and DELIVERY of TWO ELECTRICALLY OPERATED METER PUMPS and TWO UNDERGROUND PETROL STORAGE TANKS. Conditions of Tender and Specification may be obtained from the County Surveyor, Aykley Heads, Durham.

Tenders, in plain sealed envelopes endorsed "Supply of Pumps and Tanks," are to be delivered to the undersigned not later than Noon on FRIDAY, 19th August, 1960.

The Authority do not bind themselves to accept the lowest or any Tender.

J. K. HOPE,
Clerk of the Authority.

Shire Hall,
Durham.

CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

DEMOLITION OF PROPERTY.

TENDERS are invited for the DEMOLITION of a TWO-STORY TIMBER GARAGE BLOCK in LOVE LANE, KINGS LANGLEY.

The Work includes Demolition, Filling Foundations, Removal of all Surplus Materials and Complete Clearance of Site.

Tender documents, returnable by 10 a.m. on WEDNESDAY, 17th August, 1960, may be obtained from the offices of the County Surveyor, County Hall, Hertford.

BOROUGH OF GOSPORT.

CONCRETE BASES TO 100 GARAGES.

Documents will be available in the near future to enable contractors to TENDER for the CONSTRUCTION of CONCRETE BASES and WASHDOWNS for 100 GARAGES to be ERECTED on 14 SITES. (The garages are being supplied and erected by the manufacturers under another Contract.)

Applications for the Tender documents are to be made to the Borough Engineer, The Hall, Trinity Green, Gosport, accompanied by a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and/or the return of all documents.

Tendering instructions will be issued with the documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport,
27th July, 1960.

BOROUGH OF HIGH WYCOMBE.

CONTRACT NO. 5.

WOODBURN VALLEY LINK SEWER.

TENDERS are invited for the CONSTRUCTION of the ABOVE SEWER.

The Work comprises approx. 2,700 yd. of 12in.-24in. of mainly Concrete Pipes with Double Seal Joints in Open Cut with Precast Concrete Manholes, Trunk Road and River Crossing, the Erection of a Compressor Station, together with the Installation of Compressors, and ancillary Works. A considerable length of this sewer will be laid in water-bearing ballast.

Specification, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer's Department, Municipal Offices, High Wycombe, on receipt of a cheque for £5 5s., which will be returned on receipt of a bona-fide Tender.

Drawings will be sent to contractors for use in submitting a Tender, and inquiries may be made at the above address between 9 a.m. and 5 p.m. (9 a.m. to 11.30 a.m. on Saturday).

Only contractors who have the organisation, labour plant and resources to carry out the work in an expeditious and workmanlike manner and, further, have had extensive experience in work of a similar nature should submit a Tender for this work.

Tenders must be returned, in the envelope provided, by Noon on MONDAY, 19th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON, M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

BOROUGH OF SHREWSBURY.

MUSIC HALL ALTERATIONS.

FIRM-PRICE TENDERS are invited from building contractors for ALTERATIONS at the MUSIC HALL, comprising New Kitchen and Catering Equipment, Installation of Passenger Goods Lift, and Addition of Mayor's Retiring Room.

Bills of Quantities, Specification and Tender documents may be obtained upon application to the Borough Surveyor, Guildhall, Shrewsbury, upon payment of a deposit of Three Guineas by cheque, payable to Shrewsbury Corporation) which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn. Drawings may be inspected at the Office of the Architect, GRAHAM F. GOATLEY, A.R.I.B.A., Foresters' Hall, Wyle Cop, Shrewsbury, during normal office hours.

It is anticipated that the work will be started during September and contractors tendering must be in a position to fulfil this requirement.

Tenders, in the envelope provided, endorsed "Music Hall Alterations," must be received by the undersigned not later than First Post on WEDNESDAY, 31st August, 1960.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.

BOROUGH OF EDMONTON.

RESURFACING AND RECONSTRUCTION OF SILVER STREET (A.403) CARRIAGEWAY BETWEEN FORE STREET AND GLOUCESTER ROAD.

TENDERS are invited for the FOLLOWING WORKS:

- (1) Breaking up and Disposing of the existing Carriageway Construction and Constructing with Hot Rolled Asphalt (10in. thick Base Course and 1½in. thick Wearing Course, approx. area 1,450 sq. yd.).
- (2) Burning-off 1½in. of existing Surfacing and Resurfacing with 1½in. thick Hot Rolled Asphalt Wearing Course (approx. area 1,450 sq. yd.).
- (3) Laying 1½in. thick Hot Rolled Asphalt Carpet (approx. area 2,150 sq. yd.).

These three operations will be covered by one contract, documents for which can be obtained from the Borough Engineer and Surveyor, Town Hall, Edmonton, N.9, on payment of a deposit of £2 2s., which will be returned on receipt of a Tender.

Tenders to be delivered to the TOWN CLERK by Noon on MONDAY, 5th September, 1960.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

TENDERS are invited for the MAKING-UP OF PART of IESSE ROAD, BEDHAMPTON.

The Works comprise Excavation and Construction of 465 sq. yd. of Footways Surfaced with Hot-rolled Asphalt, together with Repairs to Kerbs and Carriageway, and ancillary Works.

Conditions of Contract and Drawings may be inspected at the offices of the Engineer and Surveyor, 17 Park Road North, Havant, from whom the Specification, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope, which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered not later than 12 Noon on the 25th AUGUST, 1960, to the CLERK OF THE COUNCIL, Town Hall, Havant.

The Council do not bind themselves to accept the lowest or any Tender.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS invited for SUPPLY of the FOLLOWING:
(1) Physical Education Apparatus to Schools.
(2) Musical Instruments and Equipment to Bishop Auckland Technical College.
Details from undersigned. Tenders by 26th AUGUST, 1960.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
29th July, 1960.

COUNTY BOROUGH OF NEWPORT.
WATER DEPARTMENT.

TENDERS are invited for the CONSTRUCTION of the MASS CONCRETE FOUNDATIONS for a WATER TANK, the LAYING of 3,600 yd. of 9 in. ASBESTOS-CEMENT and CAST-IRON MAINS, and ancillary works. Particulars from WATER ENGINEER AND MANAGER, Water Department, High Street, Newport, Mon.
Closing date for Tenders, 29th AUGUST, 1960.

COUNTY BOROUGH OF READING.

MANOR JUNIOR SCHOOL—PLAYING FIELD.
BURGHFIELD ROAD, READING.

TENDERS are invited for CONSTRUCTION of the ABOVE, approx. three acres in extent, involving Excavating and Regulating, Seeding, together with Incidental Drainage Works.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.
Tenders to be delivered to the CHIEF EDUCATION OFFICER, Blagrove Street, Reading, by 12 Noon on 24th AUGUST, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Manor Junior School Playing Field," but bearing no indication of sender.
The Corporation do not bind themselves to accept any Tender.

COUNTY BOROUGH OF WEST HAM.
DEMOLITION AND CLEARANCE OF PROPERTIES.

TENDERS are invited for the DEMOLITION and CLEARANCE of small FACTORY BUILDINGS.
Forms of Tender, General Conditions and Specification obtainable from the BOROUGH ENGINEER, West Ham Town Hall, Stratford, E.15, on payment of deposit of £2, which is returnable upon receipt of bona-fide Tenders. Tenders must be submitted by 17th AUGUST, 1960.

BOROUGH OF TAUNTON.
GALMINGTON ROAD IMPROVEMENT.

TENDERS are invited, by 22nd AUGUST, for approx. 3,200 sq. yd. of CARRIAGEWAY FOUNDATION and SURFACING, together with SURFACE WATER DRAINAGE, FOOTPATHS, and ancillary works. Specification, Bill of Quantities and Form of Tender obtainable from Borough Engineer, St. Paul's House, Taunton.

K. HORNE,
Town Clerk.
Municipal Buildings,
Taunton.
25th July, 1960.

BOROUGH OF SUTTON COLDFIELD.

HIGHWAYS ACT, 1959.

MAKING-UP OF MOSS DRIVE.

TENDERS are invited for the CONSTRUCTION of approx. 430 sq. yd. of PITCHED CARRIAGEWAY, 380 sq. yd. of TARMACADAM FOOTPATHS, and 84 lin. yd. PRECAST CONCRETE KERBS.
Application for Contract documents, accompanied by a deposit of Two Pounds (returnable on receipt of a bona-fide Tender not subsequently withdrawn), should be made to the Borough Surveyor, Council House, Sutton Coldfield, where Plans and Sections may be inspected during office hours.
Tenders, endorsed "Making-up of Moss Drive," are to be delivered in plain sealed envelopes not later than Noon, 24th AUGUST, 1960.

J. P. HOLDEN,
Town Clerk.

The Council House,
Sutton Coldfield.

WIGSTON URBAN DISTRICT COUNCIL.

MAJOR ROAD IMPROVEMENT WORKS—
ROUTE B.582.

TENDERS are invited for the CARRYING OUT of MAJOR ROAD IMPROVEMENTS to the CARRIAGEWAY and FOOTPATHS in BUSHLOE END, Wigston, on Route B.582 (approx. 180 lin. yd.), together with certain Accommodation Works which include Demolition and Rebuilding.

Particulars, Specification and Form of Tender may be obtained from the Engineer and Surveyor at the address below on payment of a deposit of £5 Ss., which is refundable on receipt of a bona-fide Tender. Cheques should be made payable to Wigston Urban District Council.

Tenders to be delivered to the undersigned, in the envelope provided, not later than 12 Noon on WEDNESDAY, 14th September, 1960.

W. H. GUNNING,
Clerk of the Council.

Council Offices,
Wigston, Leicester.

WHICKHAM URBAN DISTRICT COUNCIL.

ELECTRICAL STREET LIGHTING.

TENDERS are invited for the ELECTRICAL STREET LIGHTING of DUNSTON ROAD (from Four Lane Ends to Wellington Road, C.118; WELLINGTON ROAD and GASWORKS BRIDGE ROAD, C.118; and RAVENSWORTH ROAD, Dunston).

The works are to be in accordance with the B.S. Code of Practice for Street Lighting (Part I, Traffic Routes) and conform with the Ministry of Transport's Standard Specification.

Plan, Specification and Form of Tender may be obtained on application.

Tenders, in plain envelopes endorsed "Public Lighting," to be forwarded to the undersigned no later than 29th AUGUST, 1960.

J. BUGGLE,
Clerk of the Council.

Council Offices,
Whickham,
Newcastle upon Tyne.

CONTRACTS

CITY OF YORK.

EDUCATION COMMITTEE.

THE CENTRAL COLLEGE OF FURTHER EDUCATION, DRINGHOUSES.

TENDERS are invited for the CONSTRUCTION of 2,500 sq. yd. TARMACADAM on HARDCORE CARRIAGEWAY, 3,600 sq. yd. of 9 in. dia. STONE GLAZED WARE PIPE, SURFACE and FOUL SEWER with BRICK MANHOLES, and the DEMOLITION of a COTTAGE, FARM BUILDINGS and other STRUCTURES.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bills of Quantities and Form of Tender obtained from, the undersigned on payment of a deposit of £2 (Two Pounds), cheque to be made payable to York Corporation. Deposits will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

The completed Form of Tender shall be delivered to the undersigned, in the official printed tender envelope, sealed and endorsed "Central College of Further Education—Sewerage, and Demolition," not later than Noon on MONDAY, 5th September, 1960.

The lowest or any Tender will not necessarily be accepted.

CHAS. J. MINTER,
City Engineer, Surveyor
and Planning Officer.

7 St. Leonard's Place,
York.

CITY OF YORK.

EDUCATION COMMITTEE.

ASHFIELD SECONDARY MODERN SCHOOL—
PLAYING FIELDS.

TENDERS are invited for the CONSTRUCTION of approx. 8,100 lin. yd. of 6 in., 4 in. and 3 in. dia. CLAYWARE LAND DRAINS, MANHOLES, CULTIVATION and SEEDING of approx. 13 acres of PLAYING FIELD, and the CONSTRUCTION of Three HARD TENNIS COURTS.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bills of Quantities and Form of Tender obtained from, the undersigned on payment of a deposit of £2 (Two Pounds), cheque to be made payable to York Corporation. Deposits will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

The completed Form of Tender shall be delivered to the undersigned, in the official printed tender envelope, sealed and endorsed "Ashfield Secondary Modern School—Playing Field," to be returned not later than Noon on MONDAY, 5th September, 1960.

The lowest or any Tender will not necessarily be accepted.

CHAS. J. MINTER,
City Engineer, Surveyor
and Planning Officer.

7 St. Leonard's Place,
York.

CITY OF YORK.

EDUCATION COMMITTEE.

ASHFIELD SECONDARY MODERN SCHOOL—
SURFACE WATER CULVERT.

TENDERS are invited for the CONSTRUCTION of approx. 560 lin. yd. of 21 in. and 15 in. dia. SPUN-CONCRETE PIPE, 120 lin. yd. of 12 in. dia. STONE GLAZED WARE PIPE with BRICK MANHOLES and HEADWALLS.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bills of Quantities and Form of Tender obtained from, the undersigned on payment of a deposit of £2 (Two Pounds), cheque to be made payable to York Corporation. Deposits will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

The completed Form of Tender shall be delivered to the undersigned, in the official printed tender envelope, sealed and endorsed "Ashfield Secondary Modern School—S.W. Culvert," not later than Noon on MONDAY, 5th September, 1960.

The lowest or any Tender will not necessarily be accepted.

CHAS. J. MINTER,
City Engineer, Surveyor
and Planning Officer.

7 St. Leonard's Place,
York.

CITY OF YORK.

EDUCATION COMMITTEE.

MOLLETTS FIELD.

TENDERS are invited for the CONSTRUCTION of a PLAYING FIELD of approx. 0.83 acres. The work includes Cultivation and Seeding and Perimeter Fencing.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bills of Quantities and Form of Tender obtained from, the undersigned on payment of a deposit of £2 (Two Pounds), cheque to be made payable to York Corporation. Deposits will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

The completed Form of Tender shall be delivered to the undersigned, in the official printed tender envelope, sealed and endorsed "Molletts Field," not later than Noon on MONDAY, 5th September, 1960.

The lowest or any Tender will not necessarily be accepted.

CHAS. J. MINTER,
City Engineer, Surveyor
and Planning Officer.

7 St. Leonard's Place,
York.

CITY OF LIVERPOOL.

TENDERS invited for SUPPLY, DELIVERY, ERECTION and TESTING of Two Sets of TANK CLEANING MACHINERY for sedimentation tanks at SOUTH SEWAGE DISPOSAL WORKS. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders returnable by 16th SEPTEMBER, 1960. (I.6324)B

THOMAS ALKER,
Town Clerk.

CITY OF LIVERPOOL.

TENDERS invited for SUPPLY and DELIVERY of VALVES and PENSTOCKS to SOUTH SEWAGE DISPOSAL WORKS. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders returnable by 5th SEPTEMBER, 1960. (I.6324)A

THOMAS ALKER,
Town Clerk.

CITY OF LIVERPOOL.

TENDERS invited for ERECTION of CLEANSING DEPOT SOHO SQUARE, Liverpool, 3. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Deposit £2, payable City Treasurer. Tenders returnable by 16th SEPTEMBER, 1960.

THOMAS ALKER,
Town Clerk.

CONTRACTS

BOROUGH OF GOSPORT.

TENDERS FOR MAKING-UP SIX PRIVATE
STREETS.

Documents will be available in the near future to enable contractors to TENDER for the ABOVE WORKS, which consist of Bitumen Macadam Carriageway, Asphalt Footpaths, Grass Verges, Surface Water Drainage, etc.
Interested firms should make application to the Borough Engineer, The Hall, Trinity Green, Gosport, who will forward the documents when they are available, together with full tendering instructions. Applications should be accompanied by deposits of £2 2s., which will be refunded on receipt of a bona-fide Tender and/or the return of all documents. The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport.

BOROUGH OF SUTTON AND CHEAM.

SURFACE WATER AND SOIL SEWERS—
HIGH STREET, SUTTON.

TENDERS are invited for the LAYING of approx. 418 lin. yd. of 39 in. dia. CONCRETE PIPES, with 12 in. dia. GLAZED STONEWARE PIPES under the Concrete Pipes, together with an additional 43 lin. yd. of 12 in. PIPE.

Copies of the Contract documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton, Surrey, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the envelope provided, endorsed "Surface Water and Soil Sewers—High Street, Sutton," bearing no indication of the name of the sender, are to be delivered to the undersigned not later than Noon on FRIDAY, the 9th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton, Surrey.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 927.

PUBLIC LIGHTING IMPROVEMENTS, 1960-61.

FIXED-PRICE TENDERS are invited from experienced contractors for the FOLLOWING WORK to be undertaken under one contract:

- (i) The Supply and Erection of 87 25ft. mounting height and 62 15ft. mounting height Concrete Columns and Brackets and 12 15ft. mounting height Cast-Iron Columns and Brackets (all specified patterns).
- (ii) The Resiting of approx. 160 15ft. mounting height Metal and 25 15ft. mounting height Concrete Columns and Brackets.
- (b) The Supply and Fitting of 87 Lanterns for 140-Watt Sodium Vapour Lamps and 220 Lanterns for 60-Watt Sodium Vapour Lamps with Control Gear and Lamps (all specified patterns) and the fitting only of 66 60-Watt Sodium Vapour Lanterns.
- (c) All the necessary Electrical Work in the Wiring (other than jointing and servicing of the Columns and Lanterns in (a) and (b) above.

Forms of Tender, Specifications and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than the 31st AUGUST, 1960.

The lowest or any Tender will not necessarily be accepted.

ESHER URBAN DISTRICT COUNCIL.

SUPPLY OF NEW MORRIS TRUCK.

TENDERS are invited for the SUPPLY and DELIVERY of a NEW MORRIS Swt. "PICK-UP" TRUCK.

Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Esher, Tenders, on the prescribed Form, enclosed in the envelope provided and endorsed "Tender for Truck," and bearing no name or mark indicating the sender, must be addressed to the undersigned and received by him not later than 5 p.m. on FRIDAY, the 26th August, 1960.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher, Surrey.
26th July, 1960.

ESHER URBAN DISTRICT COUNCIL.

FOOTPATH RECONSTRUCTION SCHEME—
STAGE I, 1960-61.

CONTRACT NO. 306.

The Council invite TENDERS for the ABOVE WORKS, which comprise the following:

- (i) Reconstruction of various Footpaths in the Hinchley Wood area, involving Taking up and Reshaping existing Paving, the Provision and Laying of approx. 3,800 sq. yd. 2 in. Macadam Paving, 4,300 sq. yd. 1 in. Macadam Surfacing, 800 sq. yd. Precast Concrete Paving, and Taking up 800 sq. yd. Southwater Brick Paving, and Re-laying on new 3 in. Concrete Base.
- (ii) Construction of 6ft. wide Footpath at Blundell Lane, Stoke d'Abernon, involving the Provision and Laying of approx. 1,250 sq. yd. 2 in. Macadam Paving, 125 lin. yd. Kerb, and various ancillary works.
- (iii) Replacement of Grass Areas at Ray Road Housing Sites, West Molesey, by Coloured Paving, approx. 500 sq. yd.

Form of Tender, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor, Department, Council Offices, Esher, upon payment of a deposit of One Guinea, which will be refunded on receipt of a bona-fide Tender, together with the return of all the documents in the envelope provided.

Tenders, on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 306," and bearing no name or mark indicating the sender, must be received by the undersigned not later than 5 p.m. on FRIDAY, the 26th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher, Surrey.

CONTRACTS

BOROUGH OF DOVER.
AMENDED ADVERTISEMENT.20 HOUSING UNITS—ST. DAVID'S AVENUE,
AYCLIFFE.

FIXED-PRICE TENDERS are invited for the ERECTION of 20 HOUSING UNITS, together with all site and ancillary works, on the north side of ST. DAVID'S AVENUE, AYCLIFFE, Dover.

Bills of Quantities, Specification and Forms of Tender may be obtained from the Borough Engineer, Brook House, Dover, on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders and Priced Bills of Quantities, in envelopes provided, should reach the undersigned not later than the 9th SEPTEMBER, 1960.

JAMES A. JOHNSON,
Town Clerk.New Bridge House,
Dover,
29th July, 1960.CITY OF HEREFORD.
PROPOSED RUNNING TRACK.

THE COUNCIL invite LUMP-SUM TENDERS, on a Fixed-price Basis, for the PROVISION and CONSTRUCTION of a CINDER RUNNING TRACK to A.A.A. standards, complete with Field Events and Steeplechase, Perimeter Fencing, etc.

Drawings, Specification and Form of Tender may be obtained from the City Surveyor, Town Hall, Hereford, on deposit of £2 2s., refundable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, and bearing no mark or indication of the sender, must be received by me not later than 9 a.m. on MONDAY, the 12th September, 1960.

T. B. FELTHAM,
Town Clerk.Town Hall,
Hereford,
July, 1960.

ROTHWELL URBAN DISTRICT COUNCIL.

PROPOSED STREET LIGHTING—
LEEDS-EXETER TRUNK ROAD, A.61.

TENDERS are invited for the PROVISION and ERECTION of 72 40-W. TOTALLY ENCLOSED SODIUM ELECTRIC COLLING STREET LIGHTING UNITS, with Reinforced or Prestressed Concrete Columns, on the ABOVE ROAD.

Plans may be seen, and Conditions of Contract, Specification and Bill of Quantities obtained, upon application to the Engineer and Surveyor on deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be enclosed in plain sealed envelopes endorsed "Street Lighting, A.61," and returned not later than 9 a.m. on FRIDAY, 2nd September, 1960, to the undersigned.

ALLEN T. S. ROBERTSON,
Clerk of the Council.Civic Buildings,
Rothwell, Leeds,
29th July, 1960.URBAN DISTRICT COUNCIL OF
COULSDON AND PURLEY.BOWLING GREEN AND CAR PARK,
SANDERSTEAD RECREATION GROUND.

TENDERS are invited for the ABOVE WORKS.

Bill of Quantities, Specification and Form of Tender prepared by H. M. COLLINGS, M.C.E., may be obtained upon deposit of £3 3s., which will be refunded upon receipt of a bona-fide Tender.

Plans and Conditions of Contract may be inspected at the Council Offices.

Sealed Tenders, in the envelopes provided, must be delivered to the undersigned not later than First Post on MONDAY, 22nd August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC F. J. FELIX,
Clerk of the Council.Council Offices,
Purley,
Surrey.URBAN DISTRICT COUNCIL OF
FELTHAM.PROPOSED OUTFALL SEWER NO. 1.
SECTION NO. 2.

TENDERS are invited for the CONSTRUCTION of approx. 1,177 yd. of 30in. dia. SOIL SEWER in OPEN CUT at an average depth of 14ft., together with Manholes and ancillary works.

General Conditions of Contract may be seen and Drawings, Specification, Bill of Quantities and Form of Tender obtained, from the Engineer and Surveyor, Lynton House, 13 Hanworth Road, Feltham.

Applications must be accompanied by a deposit of Two Guineas, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn and return of the Contract documents.

Tenders, in sealed envelopes, which must show no indication of the sender, endorsed "Tender, Proposed Outfall Sewer No. 1, Section 2," must be delivered to the undersigned not later than 5 p.m. on the 5th SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

M. W. COUPE,
Clerk of the Council.Council Offices,
Feltham,
Middlesex,
3rd August, 1960.

ILKLEY URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

PUBLIC CONVENIENCES, ILKLEY.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of TWO BUILDINGS, comprising PUBLIC CONVENIENCES, at—

(i) Near the Cow and Calf Rocks, Ilkley; and (ii) Riverside Gardens, near Old Bridge, Ilkley.

Plans and Conditions of Contract may be inspected, and copies of the Specification, Bills of Quantities and Form of Tender obtained, at the office of the Engineer and Surveyor, Chantry Drive, Ilkley.

Tenders, endorsed "Public Conveniences," to be delivered enclosed in a plain sealed envelope, to the undersigned not later than 10 a.m. on FRIDAY, 26th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. E. TOWNEND,
Clerk of the Council.Town Hall,
Ilkley,
3rd August, 1960.

CONTRACTS

COUNTY BOROUGH OF READING.
READING TECHNICAL COLLEGE—CAR PARK
WORKS.

TENDERS are invited for 4,000 sq. yd. (approx.) EXCAVATION, GRADING and PREPARATION of CAR PARK AREA, with Surface Water Drainage, etc.

General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender.

Tenders to be delivered to CHIEF EDUCATION OFFICER, Blagrove Street, Reading, by Noon on 31st AUGUST, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Reading Technical College Car Park," but bearing no indication of sender.

The Corporation do not bind themselves to accept any Tender.

METROPOLITAN BOROUGH OF
DEPTFORD.

TENDERS are invited from established painting contractors for the EXECUTION of INTERNAL REDECORATION WORKS to POST-WAR PROPERTIES.

Specifications, Conditions of Contract and full particulars may be obtained from the Borough Engineer and Surveyor, Deptford Town Hall, New Cross, S.E.14.

Tenders, when completed, must be returned to the undersigned in the envelope provided, not later than 4 p.m. on WEDNESDAY, 31st August, 1960. The Council reserves the right to allocate sections of work to two or more contractors, who must be prepared to carry out the work at the prices tendered.

ERNEST FIELD,
Town Clerk.Deptford Town Hall,
New Cross, S.E.14.

BOROUGH OF WARWICK.

LINK ROAD COVENTRY ROAD (A.46) TO
LAKIN ROAD.

TENDERS are invited from experienced contractors for the CONSTRUCTION of the ABOVE ROAD, comprising approx. 450 lin. yd. of 22ft. wide Carriageway and 800 lin. yd. of 9in. and 12in. Surface Water Sewer.

Tender documents may be obtained from the Borough Engineer and Surveyor, 23 Jury Street, Warwick, on payment of a £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned in the envelopes provided, not later than MONDAY, the 29th August, 1960, and the Council do not bind themselves to accept the lowest or any Tender received.

H. B. DOLPHIN, M.C., T.D., M.A.(Oxon),
Town Clerk.Pageant House,
Warwick.

BOROUGH OF RICHMOND (YORKS.).

TENDERS are invited for ONE 32R TANDEM VIBRILL VIBRATING ROLLER, complete with Water Tank and Sprinklers.

Tenders to BOROUGH ENGINEER, Corporation Offices, Richmond, Yorkshire, to be clearly marked "Tender for Roller."

IRLAM URBAN DISTRICT COUNCIL.

MAIN DRAINAGE SCHEME.

PUMPING PLANT.

TENDERS are invited for the SUPPLY and ERECTION of THREE ELECTRICALLY OPERATED PUMPS, any two of which should be capable of dealing with a maximum flow of unscreened sewage of 350 cu. ft. per minute, against a total head of 36ft.

The Specification, Layout Drawing and Form of Tender may be obtained from the ENGINEER AND SURVEYOR, Council Offices, Irlam, on payment of a deposit of One Guinea, returnable upon receipt of a bona-fide Tender. Closing date for receipt of Tenders, 3rd SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

IRLAM URBAN DISTRICT COUNCIL.

SURFACE WATER SEWER.

HAYES ROAD, CADISHEAD.

TENDERS are invited for the CONSTRUCTION of approx. 245 lin. yd. of 12in., 15in. and 18in. dia. CONCRETE PIPE SEWER, together with Five Manholes and incidental works.

The Specification, Bill of Quantities and Form of Tender may be obtained from the ENGINEER AND SURVEYOR, Council Offices, Irlam, on payment of a deposit of One Guinea, returnable upon receipt of a bona-fide Tender. Closing date for receipt of Tenders, 3rd SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CHESTER-LE-STREET RURAL DISTRICT COUNCIL.

NEW LAMBTON (FLOATERS MILL).

SEWERAGE AND SEWAGE DISPOSAL.

TO SEWERAGE CONTRACTORS.

The above Council invite TENDERS for the FURNISHING and LAYING of approx. 130 lin. yd. of 12in., 9in. and 6in. dia. EARTHENWARE PIPE SEWERS, 1,760 lin. yd. of 10in. CAST-IRON PUMPING MAINS, and the Construction of a Sewage Pumping Station and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. D. BALFOUR AND SONS, Consulting Engineers, Caledonian Buildings, 145 Pilgrim Street, Newcastle upon Tyne, 1, Engineers for the work, accompanied by a cheque for £5 made payable to the above Council, not later than 22nd AUGUST, 1960, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and on return of all particulars after the Contract is let.

It is essential that the contractor should have had considerable experience in similar works and be prepared to furnish good and approved security for the fulfilment of the Contract.

Tenders, in plain sealed envelopes endorsed "Tender for Sewerage Works," must reach the undersigned by a date to be given by the Engineers. The Council do not bind themselves to accept the lowest or any Tender.

J. SANDERS,
Clerk of the Council.Union Offices,
Chester-le-Street,
Co. Durham,
2nd August, 1960.

CONTRACTS

BOROUGH OF BRIGHOUSE.
MAIN DRAINAGE RECONSTRUCTION SCHEME—
CONTRACT 16.

TENDERS are invited for the LAYING of approx. 185 lin. yd. of 33in. dia. CONCRETE PIPE SEWER, together with the CONSTRUCTION of Five MAN-HOLES in COMMERCIAL STREET, Brighouse, which is the main shopping centre of the town. It is a condition of the contract that work shall continue 24 hours per day, seven days per week, until completed.

Conditions of Tender and other documents may be obtained from and Drawings inspected at the Office of the Borough Engineer, Commercial Street, Brighouse, on payment of One Pound (£1), which is returnable on receipt of a bona-fide Tender.

Tenders must be received by the undersigned not later than MONDAY, the 29th August, 1960.

JOHN R. LIDDLE,
Town Clerk.Town Hall,
Brighouse,
1st August, 1960.BOROUGH OF BRIGHOUSE.
TRUNK ROAD SURFACING.

TENDERS are invited for SURFACING sections of the FOLLOWING TRUNK ROADS:—

Leeds Road, A.62, Cooper Bridge—4,050 sq.

Leeds-Whitethall Road, A.58, Norwood Green.

10,000 sq. yd. (approx.) 1 1/2 in. Dense Tar.

Conditions of Contract, Specifications, Bills of

Quantities and Forms of Tender may be obtained on

payment of £1, which is returnable on receipt of a

bona-fide Tender, from the Office of the Borough

Engineer, Commercial Street, Brighouse.

Tenders for each road should be submitted separately, since they will be considered as separate contracts.

The Tenders, in plain sealed envelopes, endorsed "Tenders—Trunk Road Surfacing, 1960," should be sent to reach the undersigned not later than the 3rd SEPTEMBER, 1960.

JOHN R. LIDDLE,
Town Clerk.Town Hall,
Brighouse,
30th July, 1960.

BOROUGH OF BRIGHOUSE.

COOPER BRIDGE SEWAGE DISPOSAL WORKS.

TENDERS are invited for CARRYING OUT the FOLLOWING WORKS:—

(1) The Construction in Reinforced Concrete of a

90ft. dia. Flat-bottomed Humus Tank,

together with a new Effluent Carrier, Wells,

Pipework and other ancillary works.

(2) The Construction in Reinforced Concrete of a

new Sludge Well and Pump Well.

(3) The Construction of a new Pump House.

(4) The Laying of approx. 1,000 lin. yd. of

Rising Main in 6in. dia. Asbestos Pipes.

Conditions of Tender and other documents may be

obtained from and Drawings inspected at the Office

of the Borough Engineer, Commercial Street, Brighouse,

on payment of Five Guineas (£5 5s.), which is return-

able on receipt of a bona-fide Tender.

Tenders must be received by the undersigned not

later than MONDAY, the 12th September, 1960.

JOHN R. LIDDLE,
Town Clerk.Town Hall,
Brighouse,
1st August, 1960.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS and EXTENSIONS to SUMMERSEAT HOUSE SPECIAL SCHOOL, BURY. Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 31st AUGUST.

WELWYN GARDEN CITY URBAN DISTRICT COUNCIL.

BRIDGE ROAD EAST/BESSEMER ROAD/
BROADWATER ROAD JUNCTION—
RECONSTRUCTION AND WIDENING.

TENDERS are invited for the CARRYING OUT of the ABOVE WORKS, consisting of the following approx. quantities: 4,800 sq. yd. Gravel Asphalt Surfacing; 2,350 sq. yd. Dry Lean Concrete Foundation; 1,700 sq. yd. Taking-up and Re-laying Precast Concrete Paving; 550 lin. yd. Taking-up and Re-laying existing Natural Granite Kerb, together with all necessary Excavations and ancillary works.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from, and the quantities and drawings of the Contract may be inspected at, the Office of the Engineer and Surveyor, Council Offices, Welwyn Garden City.

Tenders to be delivered to the undersigned, in plain sealed envelopes, endorsed "Bridge Road East Junction Improvement," not later than Noon on MONDAY, 29th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. J. SLOCOMBE,
Clerk of the Council.Council Offices,
Welwyn Garden City,
28th July, 1960.

CRICKHOWELL RURAL DISTRICT COUNCIL.

CRICKHOWELL SEWERAGE SCHEME.

TENDERS are invited for the ABOVE SCHEME, consisting of PROVISION and LAYING of 1,700 yd. 6in. and 9in. dia. G.S.W. and CONCRETE PIPES; 1,330 yd. 12in. and 15in. dia. CONCRETE PIPES; 150 yd. of 6in. and 9in. dia. C.I. PIPES; Construction of Manholes and other ancillary works, together with EJECTOR STATION and EXTENSIONS to the existing DISPOSAL WORKS, including Sedimentation, Storm and Humus Tanks, Filter and Sludge Beds.

Contract documents may be obtained from the Consulting Engineers, MESSRS. THOMAS AND MORRIS AND PARTNERS, 23 Goodwater Road, Pontypridd, Glam., on the payment of a deposit of £3 3s., to be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

It is essential that the Contractor should be of those of the Consulting Engineers at any time during normal office hours.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Crickhowell Sewerage Scheme," not later than Noon on the 8th SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. P. B. JONES,
Clerk of the Council.Council Offices,
Beaufort Chambers,
Crickhowell,
2nd August, 1960.

CONTRACTS

BOROUGH OF WANSTEAD AND WOODFORD.

JUNCTION GEORGE LANE, B.168-HIGH ROAD, A.11 IMPROVEMENT.

TENDERS are invited for the ABOVE WORK, which consists of Widening the existing Carriageway. The work includes Provision of 320 sq. yd. Reinforced Concrete surfaced with 3in. Bitumen Macadam together with Kerbing, Drainage, Footway Construction and appurtenant works.

Documents from the BOROUGH ENGINEER, Municipal Offices, Woodford, E.18, on payment of £2 deposit. Tenders to be returned by 25th AUGUST, 1960.

BOROUGH OF MIDDLETON.

CONSTRUCTION OF ACCESS ROAD AND CAR PARK TO YOUTH CENTRE AT MARTINDALE CRESCENT.

TENDERS are invited for the ABOVE-NAMED WORKS, consisting of approx. 580 sq. yd. of Carriageway, Footpaths and Verges.

Plans and Sections may be inspected, and copies of the Form of Tender, Conditions of Contract, Specification, and Bill of Quantities obtained at the Office of the Borough Engineer, Town Hall, Middleton, near Manchester, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, endorsed "Access Road and Car Park—Martindale Crescent," to be delivered in plain sealed envelopes to the undersigned not later than 12 Noon on 17th AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
2nd August, 1960.

BOROUGH OF HOVE.

TENDERS are invited for MAKING-UP ROADWAY, PROVIDING AND LAYING CONCRETE KERBING AND CHANNELLING AND ARTIFICIAL STONE SLAB PAVING, and other works, in SANDRINGHAM CLOSE, approx. 250ft. in length. Also for SIMILAR WORK in ELIZABETH CLOSE, approx. 160ft. in length.

Further particulars may be obtained, and Plans and Specification seen, at the Office of the Borough Engineer and Surveyor, MR. G. H. CLEGG, A.M.I.C.E. Fixed-price Tenders, on forms supplied, addressed to the undersigned and endorsed "Tender for Sandringham Close," and/or "Tender for Elizabeth Close," as the case may be, will be received up to 10 a.m. on MONDAY, 29th August, 1960.

The lowest or any Tender will not necessarily be accepted.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove,
July, 1960.

BOROUGH OF HOVE.

TENDERS are invited for the ERECTION OF 26 HOUSES and 36 FLATS in CHICHESTER CLOSE.

Applications to tender must be received by the Borough Engineer and Surveyor by 10 a.m. on MONDAY, 5th September, 1960. From such applications a selected list of tenderers will be invited to whom Bills of Quantities and Forms of Tender will be sent on or about 19th September, 1960. Drawings and Form of Contract may be seen at the Borough Engineer and Surveyor's Office.

Applications to tender must be accompanied by a deposit of Three Guineas, which will be refunded to those not invited to tender, or on receipt of a bona-fide Tender, as the case may be.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, on form supplied, addressed to the undersigned, in a sealed envelope endorsed "Tender for Houses and Flats—Chichester Close," must be delivered not later than 10 a.m. on TUESDAY, 18th October, 1960.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.

CITY AND COUNTY OF NORWICH.

LAYING OF 1,312YD. OF 24IN. DIA. C.I. WATER MAIN ALONG FALLOW ROAD AND COLMAN ROAD, NORWICH.

TENDERS are invited for the LAYING of the ABOVE WATER MAIN. Contractors will be responsible for excavation, laying, jointing and reinstatement of the trenches, which will be partly in the carriageway and partly in grass verges.

Documents obtainable from the ENGINEER AND MANAGER, Water Department, City Hall, Norwich, NOR 01A. Closing date for Tenders, 29th AUGUST.

CITY OF OXFORD.

RE-LAYING SEWERS.

FIXED-PRICE TENDERS are invited for TAKING UP AND RE-LAYING EXISTING SEWERS in three parts of the City.

The Work includes 224 lin. yd. of 12in. dia., 454 lin. yd. of 9in. dia., and 26 lin. yd. of 6in. dia. Stoneware Pipes and Associated Manholes.

Contract documents may be obtained from the City Engineer, Town Hall, Oxford.

Tenders are returnable in accordance with detailed instructions contained in the documents not later than 12 Noon on 1st SEPTEMBER, 1960.

HARRY PLOWMAN,
Town Clerk.

SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

IMPROVEMENT OF MANYGATE LANE, SHEPPERTON.

TENDERS invited for the WIDENING AND CONSTRUCTION OF CARRIAGEWAY AND FOOTPATHS in the ABOVE-NAMED STREET, using Two-course Hot Rolled Gravel Asphalt, Concrete Kerbs and Channels, A.S.P. Footpaths and Concrete Surface Water Drainage.

Drawings may be inspected at the Office of the Engineer and Surveyor at the address below, from whom Tender documents may be obtained.

Tenders, in plain sealed envelopes, to be received by the undersigned not later than Noon on MONDAY, 5th September, 1960.

T. L. WATTS,
Clerk of the Council.

Council Offices,
Green Street,
Sunbury-on-Thames,
Middlesex,
5th August, 1960.

CONTRACTS

COUNTY BOROUGH OF SUNDERLAND.

TENDERS are invited for the CONSTRUCTION of TENNIS COURTS and Access Road to SUB-STATION at the NORTH HYLTON ROAD INDUSTRIAL SITE, comprising 1,700 sq. yd. of 7in. Reinforced Concrete Carriageway and Two Tennis Courts with Retaining Walls, and ancillary works.

Tender documents obtainable from the Borough Engineer, 27 Fawcett Street, Sunderland, on payment of £2 2s., refundable on receipt of a bona-fide Tender. Cheques payable to the Sunderland Corporation.

Sealed Tenders, endorsed "Access Road and Tennis Courts—North Hylton Road Industrial Site," must be received at my Office, Town Hall, not later than 23rd AUGUST, 1960.

G. S. MCINTIRE,
Town Clerk.

COUNTY BOROUGH OF SUNDERLAND.

TENDERS are invited for the CONSTRUCTION of 20 GARAGE ACCESS ROADS VARIOUS ESTATES, comprising 14,900 sq. yd. of Reinforced Concrete Roads and ancillary Sewer Works.

Tender documents obtainable from the Borough Engineer, 27 Fawcett Street, Sunderland, on payment of £2 2s., refundable on receipt of a bona-fide Tender. Cheques payable to the Sunderland Corporation.

Sealed Tenders, endorsed "Garage Access Roads," must be received at my Office, Town Hall, not later than 23rd AUGUST, 1960.

G. S. MCINTIRE,
Town Clerk.

COUNTY BOROUGH OF CROYDON.

DEMOLITION OF CHURCH.

TENDERS are invited for the DEMOLITION of the FREE CHRISTIAN CHURCH, WELLESLEY ROAD, West Croydon. The building includes a considerable quantity of stonework, etc.

Contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Croydon.

Tenders must be received by 12 Noon on MONDAY, the 29th August, 1960.

E. TABERNER,
Town Clerk.

BARNET URBAN DISTRICT COUNCIL.

RE-LAYING OF PAVED FOOTWAYS.

The Council invite TENDERS for the TAKING-UP AND RE-LAYING of approx. 7,500 sq. yd. of PRE-CAST CONCRETE SLAB PAVED FOOTWAYS in VARIOUS ROADS within the District.

Conditions of Contract may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained, on application to the Engineer and Surveyor of the Council, Ravenscroft House, Wood Street, Barnet, on any day (Saturdays excepted) between the hours of 9 a.m. and 5 p.m.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 24th August, 1960, and marked in the top left-hand corner of the envelope "Re-laying of Paved Footways." bind themselves to accept the lowest or any Tender.

ALFRED S. MAYES,
Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet, Herts.
3rd August, 1960.

DENHOLME URBAN DISTRICT COUNCIL.

WHALLEY LANE SEWERAGE EXTENSION.

The Council invite TENDERS for the FOLLOWING:

- (1) CONTRACT NO. 1.—The Laying of 125yd. 6in. Earthenware Sewer; 233yd. 4in. Cast-iron Rising Main; the Construction of an Ejector Station, Manholes, etc., and Sludge Drying Beds and Repairs at the existing Disposal Works.
- (2) CONTRACT NO. 2.—The Provision and Erection of a Compressed Air Ejector 30 s.p.m. against 50ft. head.

Form of Tender, Specification, Bill of Quantities, etc., may be obtained from the Council's Consulting Engineers, ARNOLD BROOKSBANK AND SON, 48 Sunbridge Road, Bradford, 1, Yorkshire, on payment of a deposit of £3 3s. (by cheque payable to Denholme U.D.C.) for each Contract.

Drawings may be seen at the Offices of the Consulting Engineers or at the Council Offices.

Tenders are to be on a Fixed-price Basis. Tenders, complete with priced Bills of Quantities, etc., enclosed in a plain sealed envelope endorsed "Tender for Whalley Lane Sewerage—Contract No. 1" or "No. 2," as the case may be, must be forwarded to reach me not later than Noon on MONDAY, the 5th September, 1960.

The lowest or any Tender not necessarily accepted, any acceptance being subject to approval by the Ministry of Housing and Local Government.

ARTHUR B. BERRY,
Clerk of the Council.

Council Offices,
Denholme,
Near Bradford, Yorks.
4th August, 1960.

DORKING URBAN DISTRICT COUNCIL.

PROPOSED BLOCK OF 29 DWELLINGS—HAMPSHIRE ROAD, DORKING.

The Council invite applications from building contractors to TENDER on a Fixed-price Basis, for the ERECTION OF TWO HOUSES, 21 FLATS AND SIX MAISONNETTES in Three Continuous Sections in Two, Three and Four Storeys, respectively, to be built in Crosswall Construction with Reinforced Concrete Retaining Wall Roadworks and Pavings.

The Architects are MESSRS. HOWARD V. LOBB AND PARTNERS, F./R.I.B.A.

Applications to be received by the undersigned, Dorking Urban District Council, Pipbrook, Dorking, Surrey, by 26th AUGUST, 1960, together with particulars of similar works previously undertaken, and names of Architects from whom references may be obtained.

Tenders will be made, and those selected will be notified, and will be required to make a deposit of £2 for the Bills of Quantities and Form of Tender.

It is anticipated that the Bills of Quantities and Form of Tender will be ready on or about 24th OCTOBER, 1960, and the deposit will be refunded on receipt of a bona-fide Tender or the return of all loaned documents.

The Council do not bind themselves to accept the lowest or any Tender.

F. G. SUTHERLAND,
Clerk of the Council.

August, 1960.

CONTRACTS

HAMPSHIRE COUNTY COUNCIL.

ROADS AND BRIDGES.

TENDERS will be shortly invited for the DEMOLITION of KINGSLERE WORKHOUSE which housed approx. 100 patients.

The works include for the retention of valuable materials by the contractor of timber, slates, lead, bricks, etc.

Applications should reach the undersigned not later than the 20th AUGUST, 1960.

H. N. JENNER,
County Surveyor.

The Castle,
Winchester,
August, 1960.

CITY OF MANCHESTER.

ROYLE GREEN ROAD DEVELOPMENT.

STAGE 2—NORTHENDEN.

ROAD AND SEWER CONTRACT.

TENDERS are invited for CONSTRUCTING 3,500 sq. yd. BITUMEN MACADAM CARRIAGEWAY, 500 lin. yd. 9in. to 12in. dia. SEWER, and all ancillary works.

Tender documents (returnable by 29th AUGUST, 1960) obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester, 2.

CITY OF MANCHESTER.

TENDERS invited for HEATING INSTALLATION at VICTORIA PARK SECONDARY SCHOOL.

Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 31st AUGUST.

CITY OF MANCHESTER.

TENDERS invited for the SUPPLY AND DELIVERY of MACHINES and TOOLS to the METALWORK and WOODWORK ROOMS at PLANT HILL SECONDARY SCHOOL, Blackley.

Documents obtainable from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 22nd AUGUST.

CITY OF MANCHESTER.

HOUSING COMMITTEE.

TENDERS invited (returnable Noon, 31st AUGUST, 1960) for the ERECTION of 370 DWELLINGS at BLACKLEY NEW ROAD. Contract 294.

Documents obtainable from DIRECTOR OF HOUSING, Town Hall, Manchester, 2.

CITY OF MANCHESTER.

EXTENSION OF FLOATSHALL ROAD, GLEBELANDS ROAD, AND REMOVAL OF FLOATS ROAD.

ROADS AND GARAGE AREA.

TENDERS are invited for CONSTRUCTING 1,350 sq. yd. BITUMEN MACADAM CARRIAGEWAY, and all ancillary works.

Tender documents (returnable by 29th AUGUST, 1960) obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester, 2.

CITY OF PLYMOUTH.

HIGHWAYS ACT, 1959.

TENDERS are invited for the MAKING-UP of POWISLAND DRIVE. The work involves the FOLLOWING:

- (i) The Laying of 700 lin. yd. approx. of 9in. Foul Water and Surface Water Sewers and 130 lin. yd. approx. of 6in. Gully Connections.
- (ii) The Making-up of 2,900 sq. yd. approx. of Carriageway with Granular Base and Asphalt Surfacing and the Laying of 855 lin. yd. approx. of Concrete Kerb.
- (iii) The Making-up of 1,700 sq. yd. approx. of Tarmacadam Footpath.
- (iv) Incidental and ancillary work.

Drawings may be inspected at, and copies of the Specification and Bills of Quantities and Tender Form obtained from, the undersigned on payment of a deposit of £2. The £2 deposit will be refunded on receipt of a bona-fide Tender.

Tenders, in envelope provided, to be returned to Town Clerk, Pounds House, Peverell, Plymouth, not later than 12 Noon on WEDNESDAY, 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. ACKROYD,
City Engineer and Surveyor.

Guildhall,
Plymouth.

CITY OF SALFORD.

PROPOSED NEW PLAYGROUND—HALTON BANK SCHOOL, BOLTON ROAD, SALFORD, 6.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION of a NEW PLAYGROUND at the Halton Bank School, Bolton Road, Salford, 6.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3.

Firm-price Tenders, on the prescribed form, sealed in the envelope provided and bearing no other mark of identification, must be forwarded to the undersigned so as to be received no later than 9 a.m. on WEDNESDAY, 31st August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. RIBBLEDALE THORNTON,
Town Clerk.

RURAL DISTRICT COUNCIL OF DARTFORD.

ELECTRIC PETROL DELIVERY PUMP.

TENDERS are invited for the SUPPLY and FITTING of a NEW ELECTRICALLY OPERATED RAPID DELIVERY COMMERCIAL PUMP, 230/230-volt A.C. single phase, fitted with a limiting device.

Tenders to be submitted in a sealed envelope addressed to the Engineer and Surveyor, White Oak, London Road, Swanley, Kent, marked "Tender for Petrol Pump," but bearing no other mark and name of tender, to be received not later than 31st AUGUST, 1960.

J. H. MILBURN,
Clerk.

White Oak,
Swanley,
Kent.

CONTRACTS

COUNTY BOROUGH OF NORTHAMPTON.

Contractors wishing to TENDER for the DEMOLITION of the present KINGSTHORPE BRANCH LIBRARY and POLICE STATION, and ERECTION OF NEW PREMISES on the SAME SITE in HARBOROUGH ROAD, Northampton, should apply to the Borough Architect, Guildhall, Northampton, before 22nd AUGUST, enclosing crossed cheque (payable to Northampton Corporation) for £2 2s. This sum will be returned if a bona-fide Tender is received by the required date.

C. E. VIVIAN ROWE,

Town Clerk.

BOROUGH OF MAIDSTONE.

WIDENING OF WILLINGTON STREET.

TENDERS are invited for the WIDENING OF WILLINGTON STREET (length approx. 600yd.) in Hardcore and Tarmacadam, and for the Provision of a Footpath. Specification and Bills of Quantities may be obtained from, and Drawings seen at, the Office of the Borough Engineer, Palace Avenue, Maidstone. Tenders, in plain sealed envelopes endorsed "Widening of Willington Street," must reach the undersigned not later than 10 a.m. on TUESDAY, 30th August, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

T. SCHOLES,

Town Clerk.

BOROUGH OF NUNEATON.

DRAINAGE AND PAVING OF GARAGE SITES.

TENDERS are invited for the DRAINAGE AND PAVING OF GARAGE SITES within the Borough. Application for Contract documents should be made to the Borough Surveyor, Council House, Nuneaton, accompanied by a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders to be delivered to the undersigned not later than 10 a.m. on MONDAY, 5th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. A. CRABTREE,

Town Clerk.

BOROUGH OF SOUTHGATE.

MAKING-UP OF SEAFIELD ROAD, N.11.

TENDERS are invited from civil engineering contractors for the MAKING-UP OF Seafield Road, N.11. The street is approx. 40ft. wide and 434yd. long, and the work includes the following: Paving, Kerbing, Surfacing with Bitumen Macadam on a Tarmacadam Base, 14 Course 8in. Hardcore and 3in. Clinker, together with all ancillary works, including a small amount of Drainage Works.

Contractors wishing to tender should make written application to the Borough Engineer and Surveyor for a copy of the relevant documents.

Drawings and General Conditions of Contract may be inspected at the Engineer's Office, Palmers Green, N.13, during normal office hours.

Sealed Tenders, in the envelope provided, must be received by the undersigned not later than 9 a.m. on MONDAY, 5th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

GORDON H. TAYLOR,

Town Clerk.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 718—EIGHT 4-STORY DWELLINGS AND ONE SHOP—POOL FARM ESTATE, KINGS NORTON.

CONTRACT 733—3-STORY DWELLINGS—BUNBURY ROAD ESTATE, NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION OF THE ABOVE.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each Contract at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 16th AUGUST, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona-fide Tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, 16th September, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,

Town Clerk.

URBAN DISTRICT COUNCIL OF BRAINTREE AND BOCKING.

REPLACEMENT SEWER—GRENVILLE ROAD.

TENDERS are invited for the LAYING OF A REPLACEMENT SEWER in the ABOVE ROAD. The work consists of Laying approx. 280 lin. yd. of 15in. to 6in. sewers, with Flexible Telescopic Joints, together with Alterations, Connections, Manholes and Gutters, and other appurtenant works.

Specification, Bill of Quantities and Form of Tender may be obtained from the Surveyor, Town Hall, Braintree, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender and return of all documents. Plans and Conditions of Contract may be inspected at the Town Hall, Braintree.

Tender, Specification and Bill of Quantities must be submitted separately in the envelopes provided and delivered to the undersigned at the Town Hall, Braintree, before Noon on FRIDAY, 26th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. BALSON,

Clerk of the Council.

CONTRACTS

COUNTY BOROUGH OF WALSALL.

PUBLIC WORKS DEPT.

SEWER EXTENSION—BELL ROAD.

TENDERS are invited for the CONSTRUCTION of approx. 250 lin. yd. 9in. and 12in. dia. SALT GLAZED WARE FOUL WATER SEWER, together with Concrete Tube Manholes.

Forms of Tender and appropriate documents can be obtained from the undersigned on the deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Tenders must be sent in a sealed envelope addressed Town Clerk, Council House, Walsall, bearing the words "Sewer Extension—Bell Road," and are to be received not later than 12 Noon, TUESDAY, 30th August, 1960.

Any Tender received after the time stated, or otherwise than in an envelope endorsed as required, may be rejected.

An envelope suitably addressed and endorsed will be supplied with the Form of Tender, and it is desired that this envelope be used.

The Council do not bind themselves to accept the lowest or any Tender.

M. E. HABERSHON,

Borough Engineer and Surveyor.

BOROUGH OF SURBITON.

TENNIS COURTS—SURBITON LAGOON.

ALEXANDRA RECREATION GROUND AND KING GEORGE'S FIELD.

TENDERS are invited for the RESURFACING OF FOUR HARD TENNIS COURTS, in accordance with the Plans, Specification, Bills of Quantities and General Conditions of Contract, which may be obtained from the Office of MR. R. THIRLWAY, M.I.Mun.E., M.I.Struct.E., Borough Engineer and Surveyor, Council Offices, Ewell Road, Surbiton.

Tenders, on the form provided, enclosed in the endorsed envelope provided, and bearing no name or mark indicating the sender, must be delivered to the undersigned and received by him not later than 12 Noon, FRIDAY, 26th August, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

JOHN H. A. CRUNDELL,

Town Clerk.

BOROUGH OF GODALMING.

GREEN LANE ESTATE, FARNCOMBE.

ROADS AND SEWERS.

TENDERS are invited for the ABOVE WORKS, which include as follows:

8in. Lean-mix Concrete Carriageway with 2in. Hot Rolled Asphalt Surfacing, 1,700 sq. yd.

5in. Reinforced Concrete Carriageway, 875 sq. yd.

Concrete Kerbing, 1,650 lin. yd.

6in. Foul Sewer, 400 lin. yd.

6in. Surface Water Sewer, 310 lin. yd.

6in. Surface Water Sewer, 140 lin. yd.

24in. Surface Water Sewer, 95 lin. yd.

27in. Surface Water Sewer, 220 lin. yd.

30in. Surface Water Sewer, 600 lin. yd.

Contract documents may be obtained from the Borough Surveyor, "Branksome," Filmer Grove, Godalming, on payment of Two Guineas deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes, endorsed "Green Lane Estate—Roads and Sewers," must be delivered to me not later than 10 a.m. on MONDAY, 29th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. C. HODGINS,

Town Clerk.

CITY OF OXFORD.

HINKSEY POOLS.

TENDERS are invited for STRUCTURAL and BUILDING WORK for the EXTENSION OF CHANGING ACCOMMODATION AT HINKSEY POOLS.

The works comprise the following—

(a) Reinforced Concrete Foundations, Columns and Staircases.

(b) Brick Superstructure in Two Storeys.

(c) R.C. Deck Beams and Patent Flooring.

(d) Cafe and Sanitary Accommodation.

(e) Perimeter Railings.

Contractors who have experience of carrying out this type of work expeditiously should apply to the City Engineer, Town Hall, Oxford, for tender documents, which will be available on 16th AUGUST, 1960.

HARRY PLOWMAN,

Town Clerk.

CITY OF MANCHESTER.

TENDERS invited for the ERECTION OF SHOPS, OFFICES AND FLATS at the CIVIC CENTRE, Wythenshawe.

Bill of Quantities from the CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by 30th AUGUST.

FARNHAM URBAN DISTRICT COUNCIL.

GREENHILL CLOSE AND THURBANS ROAD.

COMPLETION OF ESTATE WORKS.

The Council invite TENDERS for the SURFACING OF CARRIAGEWAYS AND FOOTPATHS on the ABOVE SITE, the approx. quantities of works being as follows: (a) 460 super. yd. Two Course Bitumen Macadam Carriageway; (b) 990 super. yd. Two Course Bitumen Macadam Footpath Surfacing; (c) 1 1/2 acres—Cultivation and Grass Seeding of Open Spaces.

Form of Tender, Specification and Bills of Quantities may be obtained from GEOFFREY POOLE, A.M.I.C.E., Engineer and Surveyor, Council Offices, South Street, Farnham, on the deposit of £2 2s., which is returnable on the receipt of a bona-fide Tender and/or the return of all documents.

General Conditions of Contract and Drawings may be inspected at the Offices of the Engineer and Surveyor during normal working hours.

Tenders are to be returned to the undersigned, in the endorsed envelope provided, not later than 12 Noon, FRIDAY, 16th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. UNDERDOWN,

Clerk of the Council.

Council Offices,

South Street,

Farnham, Surrey.

CONTRACTS

STEPNEY METROPOLITAN BOROUGH COUNCIL.

MARTINEAU STREET HOUSING SCHEME—

STAGE 1.

(75 DWELLINGS AND TWO SHOPS).

TENDERS are invited for the FOLLOWING:

(1) Thermoplastic Tile Flooring (3,250 super. yd.);

(2) Frostproof Wall Tiling (380 super yd.); and

(3) Asphalt Roofing (1,170 super. yd.); Asphalt Paving (580 super. yd.); and Tarmacadam Paving (260 super. yd.); the areas indicated being approximate.

Forms of Tender, with Conditions, etc., obtainable from the Architects, MESSRS. HOWES AND JACKMAN, at 1 Verulam Buildings, Gray's Inn, W.C.1, to whom application should be made not later than 22nd AUGUST.

Closing date for Tenders—12th SEPTEMBER, 1960.

WILFRED REEVE,

Town Clerk.

BOROUGH OF MAIDENHEAD.

The COUNCIL invites TENDERS for the FOLLOWING WORKS:

(a) Cox Green Housing Estate—Footway Works Stage 1, Section 2.—The Construction of Flag Paved Footways with Cold Asphalt Surfaced Verges (approx. 2,300 sq. yd.) and all incidental works.

(b) Cox Green Housing Estate—Carriageway Surfacing—Stage 1.—The Removal of the existing Temporary Hoggin Surface and the Provision and Laying by mechanical spreader of approx. 10,400 sq. yd. of Tarmacadam Base and Bituminous Macadam Wearing Courses to Carriageways, and all incidental works.

(c) Shoppenhangers Road Lighting—Stage 2. The Erection up of 26 15ft. and 20 25ft. Reinforced Concrete Lighting Columns and the Fixing thereon of Fluorescent Type Lanterns and Auxiliary Gear and all incidental works.

(d) Queen Street (Part) Reconstruction—Section 1.—The Taking up and Re-laying of existing kerb as necessary, the Construction of an 8in. Reinforced Concrete Foundation on a Hoggin Sub-base, Provision and Laying of approx. 900 sq. yd. of Rolled Asphalt Base and Wearing Courses to Carriageway, Surface Water Drainage, and all incidental works.

Drawings may be seen at tender documents obtained from the Office of the Borough Engineer and Surveyor, 14 Craufurd Rise, Maidenhead, on payment of a deposit of Two Pounds (£2) for each of the above contracts, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes, endorsed as appropriate, and bearing no mark or indication of the sender, must be delivered to me not later than FRIDAY, 2nd September, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,

Town Clerk.

BOROUGH OF BARNES.

TENDERS are invited for the FOLLOWING WORKS:

(1) Making-up of Uplands Close, S.W.14.

(2) Making-up of Stonehill Road, S.W.14 (Part of).

(3) Widening Christ Church Road, S.W.14 (Part of).

The work comprises Laying Hardcore Foundation, Kerbing and Channeling, Construction of Paved Footways, and Bituminous Macadam Surfacing of Carriageways.

Form of Tender, Specification and Bills of Quantities may be obtained from the undersigned, to whom they should be returned in the envelope provided not later than First Post, FRIDAY, 26th August, 1960.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S.,

Borough Engineer and Surveyor.

Municipal Offices,

Sheen Lane, S.W.14.

BOROUGH OF TWICKENHAM.

TENDERS are invited for the SUPPLY OF ALL or ANY of the FOLLOWING EQUIPMENT:

One Dennis Gully Empiler; Two Karrier Gamecock Refuse Collectors; Four Bedford 3-ton Tipper; One Thames Swt. Van; One Winget 7/5 Concrete Mixer; Two Ransomes 30in. Verge Cutters; and One Allen Autoscythe.

Specifications and Forms of Tender may be obtained from the Borough Engineer, Municipal Offices, Twickenham.

Tenders, in the envelope provided, and not bearing any name or mark indicating the sender, shall be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 7th September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,

Town Clerk.

Municipal Offices,

Twickenham.

WANTAGE RURAL DISTRICT COUNCIL.

HARWELL SEWERAGE AND SEWAGE DISPOSAL SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 5,800 yd. of 12in. 9in. and 6in. SPUN-IRON AND ASBESTOS-CEMENT PIPE SEWERS, Lateral Connections, Manholes, and the Construction of a Sewage Disposal Works, and Conversion of existing Settlement Tanks to Storm Water Tanks, and appurtenant works.

Specification, Bills of Quantities, Drawings, and Form of Tender may be obtained from the Engineer and Surveyor, Belmont, Wantage, Berks. on or after 13th AUGUST, 1960, on payment of Five Guineas, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

The Tender is to be delivered in the envelope provided, to the undersigned, by not later than 12 Noon on SATURDAY, the 17th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOODGATE,

Clerk of the Council.

Council Offices,

Belmont,

Wantage, Berks.

6th August, 1960.

CONTRACTS

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to POLICE HEADQUARTERS, SOUTH STREET.
Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 31st AUGUST.

CITY OF MANCHESTER.

TENDERS invited for the ERECTION OF DUCIE SECONDARY TECHNICAL SCHOOL, MOSS SIDE.
Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 31st AUGUST.

CITY OF MANCHESTER.

TENDERS invited for ELECTRICAL INSTALLATION to SPORTS PAVILION at HOUGH END PLAYING FIELDS.
Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 24th AUGUST.

LEITCHWORTH URBAN DISTRICT COUNCIL.

FENCING.

TENDERS are invited for the PROVISION and ERECTION of approx. 980 lin. yd. of CHAIN LINK FENCING of various heights, together with ancillary Works, at VARIOUS SITES within the URBAN DISTRICT.

Documents may be obtained from MR. E. L. JOHNSON, M.I.Mun.E., The Council House, Leitchworth, upon payment of £2 2s. deposit, refundable on receipt of a bona-fide Tender.

Conditions of Contract and Drawings may be inspected in the office during normal working hours. Tenders, in the envelope provided, should be returned not later than the First Post on FRIDAY, 2nd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. PLINSTON,
Clerk of the Council.

The Council House,
Leitchworth, Herts.
August, 1960.

WALTON AND WEYBRIDGE URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

CARMALT GARDENS, ENDLSLEIGH GARDENS, LOVELACE GARDENS AND MELROSE GARDENS.

TENDERS are invited for the MAKING-UP of the ABOVE STREETS, under the Highways Act, 1959. The work comprises the Surfacing of the existing Hardcore Carriageways, the Construction of Footways with Tarmacadam, the Laying of a 6in. dia. Surface Water Sewer, together with other incidental work.

The Specification, Bills of Quantities and Forms of Tender may be obtained from the Plans and Conditions of Contract inspected at the Office of the Engineer and Surveyor to the Council, Council Offices, Walton-on-Thames.

Tenders are to be enclosed in plain sealed envelopes endorsed "Tender for Private Street Works," and delivered to the undersigned not later than 5 p.m. on TUESDAY, 6th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

EDWARD G. HUBBARD,
Clerk of the Council.

Council Offices,
Walton-on-Thames,
Surrey.
August, 1960.

WYCOMBE RURAL DISTRICT COUNCIL.

WOODBURN VALLEY SEWERAGE AND SEWAGE DISPOSAL EXTENSIONS TO BERGHERS HILL AND HEDSOR AREAS.

The above-named Council invite TENDERS for the EXECUTION OF WORKS OF SEWERAGE, comprising the Construction of about 3,400 yd. of 9in. and 6in. Spun-iron and Stoneware Sewers, Manholes, Connections to existing Sewers, and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to MESSRS. D. BALFOUR AND SONS, 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of £5, made payable to the Wycombe Rural District Council not later than 26th AUGUST, 1960, after which full particulars will be forwarded.

The deposit cheque will only be returned upon receipt of a bona-fide Tender and on return of all printed documents and Plans.

It is essential that the contractor shall have had considerable experience in similar works and be prepared to furnish security with an approved society for the fulfilment of the Contract.

Tenders, in the envelopes which will be provided, and endorsed "Hednor and Berghers Hill Sewerage," must be sent to the undersigned by the date to be given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

L. C. RYSDALE,
Clerk of the Council.

Council Offices,
17 High Street,
High Wycombe
Bucks.

EAST SUFFOLK AND NORFOLK RIVER BOARD.

RIVER WAVENEY AT BUNGAY.

NEW SLUICE.

TENDERS are invited for the CONSTRUCTION of a REINFORCED CONCRETE SLUICE STRUCTURE containing approx. 3,000 cu. ft. of Concrete, with approx. 3,500 sq. ft. of Steel Sheet Piling in Foundations and Piling to River Banks, together with Erection of one 20ft. x 7ft. sector Sluice Gate and two 12ft. x 11ft. 6in. Weir Crest Gates.

Copies of the Contract documents and Drawings may be obtained from the Chief Engineer to the Board, K. E. COTTON, M.B.E., on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and on the return of all Contract documents and Drawings.

Tenders, on the prescribed form and in a plain sealed envelope endorsed "Bungay Sluice," must be received by the undersigned not later than 9 a.m. on THURSDAY, 8th September, 1960.

The lowest or any Tender will not necessarily be accepted.

S. VINCENT ELLIS,
Clerk of the Board.

The Cedars,
Albemarle Road,
Norwich, NOR. 81E.
5th August, 1960.

CONTRACTS

LONDON COUNTY COUNCIL.

NOTTING HILL GATE.

KENSINGTON CHURCH STREET IMPROVEMENT.

TENDERS are invited from contractors having experience of large-scale road construction for the WIDENING OF KENSINGTON CHURCH STREET at its JUNCTION with NOTTING HILL GATE.
Form of Tender, Specification, etc., and Drawings are obtainable from the Chief Engineer upon payment of £3 by crossed cheque or order, made payable to the London County Council, which will be returned only if a bona-fide Tender is submitted and not subsequently withdrawn.

Contract and other relevant documents may be inspected on personal application at Room 450D, County Hall, before payment of fee. Remittance by post should be addressed to the Chief Engineer (G/C/2121/8), County Hall, Westminster Bridge, S.E.1.

No Tender received by the CLERK OF THE COUNCIL after 3 p.m. on MONDAY, 12th September, 1960, will be considered.

The Council does not bind itself to accept the lowest or any Tender.

ADMINISTRATIVE COUNTY OF LEICESTER.

TENDERS are invited for the MAKING-UP OF GLENVILLE AVENUE, GLENFIELD, under the Highways Act, 1959, Code of 1992.

Tender documents obtainable from the County Engineer and Surveyor, County Offices, Grey Friars, Leicester, on deposit of £5.

Closing date 15th SEPTEMBER, 1960.

JOHN A. CHATTERTON,
Clerk of the Council.

Grey Friars,
Leicester.

BOROUGH OF LUTON.

PRIVATE STREET WORKS.

TENDERS are invited for the FINAL MAKING-UP OF PART OF GREEN LANE. Total length approx. 45 lin. yd. Work comprises the Construction of Carriageway, Footways and Incidental Works.

Tender documents obtainable from the Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, refundable after receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable to Luton Corporation.

Tenders to TOWN CLERK, Town Hall, Luton, by Noon, THURSDAY, 1st September, 1960.

BOROUGH OF GUILDFORD.

CLASS "A" STREET LIGHTING.

TENDERS are invited for the SUPPLY, ERECTION, CABLEING, JOINTING AND BRINGING INTO SERVICE OF 117 CLASS "A" LIGHTING UNITS ON LONDON ROAD, A.3100; BOXGROVE ROAD, A.246; and WOPLESDON ROAD, A.321.

General Conditions of Contract and Drawings can be inspected at, and Bills of Quantities and Specification obtained from, the Borough Engineer and Surveyor, Municipal Offices, Guildford.

Tenders, in the envelope provided, must be delivered to me not later than 12 Noon on THURSDAY, 8th September, 1960.

HERBERT C. WELLER,
Town Clerk.

BOROUGH OF WISBECH.

LEROWE ROAD HOUSING SITE—ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION OF ROADS, SEWERS and incidental works, at Lerowe Road Housing Site, Wisbech, comprising approx. 840 super. yd. of Lean Mix Concrete Carriageway, 319 lin. yd. of Kerb and 316 lin. yd. of Soil and Surface Water Sewer.

Forms of Tender, Bills of Quantities, Specification and Plans may be obtained from the Borough Engineer and Surveyor, Church Terrace, Wisbech, Cambs., upon deposit of Two Guineas, to be refunded upon receipt of a bona-fide Tender and return of all documents.

All Contracts are subject to the Standing Orders of the Council with respect to Contracts and the Council does not bind itself to accept the lowest or any Tender.

Tenders to be endorsed "Lerowe Road Housing Site—Roads and Sewers," and forwarded, in the envelopes provided, to reach the undersigned not later than 12 Noon on MONDAY, 5th September, 1960.

N. E. DEWICK,
Town Clerk.

Town Hall,
Wisbech,
August, 1960.

GREAT OUSE RIVER BOARD.

TENDERS FOR RECONSTRUCTION OF ACCOMMODATION BRIDGE AT HAIL WESTON. RIVER KYM.

TENDERS are invited for the RECONSTRUCTION of the ABOVE BRIDGE during the financial year 1960/61. The work consists of the Replacement of the existing bridge with a new Bridge, involving the Driving of Precast Concrete-bearing Piles, and Construction of a Composite Bridge Deck in Steel and Concrete. Channel Improvement Works over a length of 150 yd. are also included.

Copies of the Contract documents and Drawings may be obtained from the Engineer of the Board at the address given below, on payment of a deposit of Five Guineas (cheques to be made payable to the Great Ouse River Board), which will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn, and on the return of all documents and Drawings.

Tenders, enclosed in the endorsed, addressed envelope provided, must be received by me not later than 9 a.m. on FRIDAY, 26th August, 1960.

K. M. RODDIS,
Clerk of the Board.

Elmhurst,
Brooklands Avenue,
Cambridge.
5th August, 1960.

LARGE Midlands contracting firm with contracts in all parts of the U.K. wishes to EXTEND its PANEL of SUB-CONTRACTORS. Contractors who undertake heavy excavations by scraper, trench excavation, agricultural drainage and similar works are requested to write immediately with full particulars of their machinery capacities, etc., to Box 8174, F. E. Potter, Ltd., 2 Clements Inn, London, W.C.2.

CONTRACTORS and SUPPLIERS interested in contracts in Co. Durham.—Contact "Thysen," Wesley House, Coombe Road, New Malden, Surrey.

For Contracts received too late for classification see page 641

APPOINTMENTS VACANT

COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

APPOINTMENT OF BUILDING INSPECTOR.

APPLICATIONS are invited for the APPOINTMENT of BUILDING INSPECTOR at a salary in accordance with Grade A.P.T. II (£765-£880 per annum).

Candidates should have had experience in a similar capacity and should have a good knowledge of building bye-laws and town planning procedure. Preference will be given to applicants holding the Building Inspector's Certificate of the Institution of Municipal Engineers. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

APPOINTMENT OF TWO TOWN PLANNING ASSISTANTS.

APPLICATIONS are invited for TWO APPOINTMENTS of TOWN PLANNING ASSISTANTS at salaries in accordance with Grade A.P.T. IV (£1,065-£1,220 per annum).

Applicants should be Corporate Members of either the Town Planning Institute, the Royal Institution of Chartered Surveyors or the Institution of Municipal Engineers, and must have had experience in all aspects of town planning work. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

BOROUGH OF BANBURY.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER to supervise the construction of a sewage pumping station, approx. 1,900 lin. yd. of gravity sewers from 24in. dia. to 12in. dia. and 1,100 lin. yd. of 14in. dia. asbestos-cement rising main, which will be the subject of one contract, followed by extensions to the existing sewage treatment works, which will be the subject of a separate contract.

The work will be executed under the direction of the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, M.I.C.E., 67 Telford Street, Westminster, London, S.W.1. Work will commence with Contract No. 3, which is due to start in October, and it is expected that Contract No. 4 will commence before the first of January, 1961.

The salary offered is £1,250 per annum, such salary to be adjusted according to any national increases, and the appointment, subject to satisfactory service, will last approximately two years, terminable by two months' notice in writing on either side. No housing accommodation will be made available for this appointment.

The person appointed will, if he has his own car, be paid an essential user car allowance on the basis of a car not exceeding 10 h.p.

Applicants should preferably be Corporate Members of the Institution of Civil Engineers, and should have had experience of similar work; they should apply in writing to the undersigned not later than 22nd AUGUST, giving full particulars of age, qualifications and experience, together with the names and addresses of two referees.

FREDERICK G. BOYS,
Town Clerk.

Municipal Buildings,
Banbury, Oxon.

CITY OF CARDIFF.

CORPORATION WATERWORKS.

APPOINTMENTS OF ENGINEERING ASSISTANTS.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS:

(a) Mechanical Engineering Assistant, Grade A.P.T. IV, £1,065-£1,220 per annum.

(b) Junior Engineering Assistant, Grade A.P.T. II, £765-£880 per annum.

Candidates for post (a) must be Associate Members of the Institution of Mechanical Engineers. Preference will be given to candidates who have had experience of pumping installations.

Candidates for post (b) must have completed professional training and have passed Parts A and B of the examination of the Institution of Civil Engineers, or possess a university degree in civil engineering.

General Conditions of Appointment can be obtained from the Water Engineer and Manager, Municipal Buildings, Greyfriars Road, Cardiff, and applications, stating age, previous experience and qualifications, together with the names of two referees, should reach the undersigned, in envelopes appropriately endorsed, on or before TUESDAY, 30th August, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
July, 1960.

THE URBAN DISTRICT COUNCIL OF TETENHALL.

APPOINTMENT OF HIGHWAYS AND WORKS SUPERINTENDENT.

APPLICATIONS are invited for the APPOINTMENT of HIGHWAYS and WORKS SUPERINTENDENT in the Engineer and Surveyor's Department at a salary to be within the Miscellaneous Grade VI (£715-£775 per annum).

If the successful applicant possesses a car, an allowance will be made.

Housing accommodation will be provided if required. The person appointed will be under the direction of and responsible to the Engineer and Surveyor for the supervision of the Council's Works and Cleansing Department. The work consists of the construction and maintenance of highways, sewers and buildings and the collection and disposal of house refuse.

Applications, which must be endorsed "Highways Superintendent," must state age, present and past appointments, qualifications and particulars of experience, together with names and addresses of persons to whom reference may be made, must be addressed to MR. J. W. MASON, Engineer and Surveyor, Council Offices, Upper Green, Tettenhall, Staffs., not later than WEDNESDAY, 31st August, 1960.

R. WAKEFIELD RUSSELL,
Clerk of the Council.

Council Offices,
Tettenhall.

APPOINTMENTS VACANT

WEST SUSSEX COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT on the permanent staff of an ASSISTANT ENGINEER for Trunk Roads, A.P.T. IV (£1,065-£1,220).

Candidates must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, and have had experience in the preparation of highway improvement schemes, together with supervision of works.

Application Forms may be obtained from the County Surveyor, County Hall, Chichester, and must be returned to him duly completed not later than 22nd AUGUST, 1960.

T. C. HAYWARD,
Clerk of the County Council.

NORTHAMPTONSHIRE COUNTY COUNCIL.

A CHIEF WORK STUDY OFFICER is REQUIRED to set up and take charge of a new Work Study Section in the County Surveyor's Department.

The appointment is superannuable and the salary will be in accordance with Grade A.P.T. III of the National Scales, £880 rising to £1,065 per annum. Applicants, preferably with technical training or qualifications, need not have had experience in work study as a thorough training will be given. Some experience in a divisional surveyor's office would be an advantage.

Candidates should submit applications, stating age, qualifications and previous experience, together with the names of persons to whom reference may be made, to the County Surveyor, County Offices, Guildhall Road, Northampton, by MONDAY, the 15th August, 1960.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

FLINTSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPOINTMENT OF INSPECTOR—QUEENSFERRY BY-PASS SCHEME.

APPLICATIONS are invited for the APPOINTMENT of INSPECTOR. Salary £900-£1,000, according to qualifications and experience. To supervise the construction by contract of the roadworks, part of the above Scheme, which includes 1.7 miles of dual carriageway.

This appointment is to the Council's temporary staff for the duration of the work, which is expected to take 12 months, commencing August, 1960, with a possibility of extension on other works. It is subject to one month's notice.

The post may be superannuable, and the normal conditions of service of the County Council apply as appropriate to the salary.

Separation or subsistence allowance will be paid in approved cases.

Applicants should have a sound knowledge of work in all aspects of supervision and measuring-up of large contract, heavy earthworks, drainage and road construction works of all types.

Further particulars, conditions of service and Application Form obtainable from the CLERK OF THE COUNTY COUNCIL, County Buildings (P.O. Box No. 1), Mold.

Closing date: 22nd AUGUST, 1960.

CITY OF PLYMOUTH.

APPLICATIONS (by 29th AUGUST, 1960) are invited for the FOLLOWING POST on the permanent staff of the City Engineer and Surveyor:

District Surveyor—Salary within Special Grade (£785-£1,070 p.a.).

The duties consist of the organisation of highway and other works, and control of labour within one of the two districts into which the city is divided.

Applicants must have passed the Final Examination of the Institute of Works and Highways Superintendents, and have had five years' experience in this type of work.

A car is provided, and a three-bedroomed flat is available to rent.

Applications on forms to be obtained from the undersigned.

J. ACKROYD,
City Engineer and Surveyor.

The Guildhall,
Plymouth.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

The Havant and Waterloo Urban District Council invite APPLICATIONS for APPOINTMENTS in the FOLLOWING GRADES:

Senior Assistant Engineer—A.P.T. IV (£1,065-£1,220).

Assistant Engineer—Special (£785-£1,070).

Engineering Assistant—A.P.T. II (£765-£880).

Candidates must be properly qualified for the grade applied for, and the commencing point will be determined according to qualifications and experience.

Housing accommodation will be provided for married applicants if required, half removal expenses will be paid, and consideration would be given to the payment of car allowances.

The district, which is located on the South Coast, has a population of approx. 75,000 and is rapidly expanding, offering excellent opportunities for experience.

Further particulars and Forms of Application obtainable from the ENGINEER AND SURVEYOR, 1 Park Road North, Havant, Hampshire, to whom they are to be returned not later than SATURDAY, 20th August, 1960.

ORMSKIRK URBAN DISTRICT COUNCIL.

BLACKACRE LANE SEWAGE DISPOSAL WORKS EXTENSIONS.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from suitably qualified persons for the ABOVE POST, to supervise the extensions to the above works, including reinforced concrete circular tanks.

The appointment is expected to commence in September and to continue for approximately 18 months.

The salary will be at the rate of £1,000 per annum, plus £250 per annum travelling and subsistence allowance.

Applications, in writing, giving details of qualifications, experience and age, together with names of two referees, should be delivered to the undersigned not later than the 24th AUGUST, 1960.

G. WILLIAMS,
Clerk of the Council.

Ormskirk Urban District Council,
Burscough Street,
Ormskirk,
Lancashire.

APPOINTMENTS VACANT

COUNTY BOROUGH OF SOUTHPORT.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the POSITION of ENGINEERING ASSISTANT. Salary in accordance with the Special Grade for Engineering Assistants (£785-£1,070).

Further particulars and forms of application, which are returnable on or before 21st AUGUST, 1960, may be obtained from the Borough Engineer, Town Hall, Southport.

Consideration will be given to assisting the successful candidate to obtain housing accommodation, and the Council is prepared to provide a 100 per cent. mortgage on house purchase.

R. EDGAR PERRIN,
Town Clerk.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Building Surveyor's Section:

(a) General Assistants (Two Posts), within Grade A.P.T. II (£765-£880 p.a.).

(b) General Assistant, within Grade A.P.T. I (£610-£765 p.a.).

London Weighting is payable in addition to both above salaries.

Applicants should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors, or equivalent, and have had experience in the general work of a Building Surveyor's Office and the administration of Building By-laws and the Town Planning Acts.

For one of the (a) posts, experience of dealing with the control of advertisements will be an advantage.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the BOROUGH ENGINEER, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by 10 a.m. on THURSDAY, 1st September, 1960.

CITY OF OXFORD.

CLERK OF WORKS REQUIRED for Blackbird Leys Link Road. Duration of appointment from two to three years. Salary £800 to £1,000 per annum, according to experience. Applicants should have not less than 10 years' site experience on civil engineering works.

Applications, stating details of training, experience, etc., and giving names and addresses of three referees, should be made in writing to the City Engineer, Town Hall, Oxford.

Housing accommodation will be provided, if necessary.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

CITY OF OXFORD.

WATER UNDERTAKING.

APPOINTMENT OF ENGINEERING ASSISTANTS.

Two vacancies, at a salary within A.P.T. Grade IV (£1,065-£1,220) or Special Grade (£785-£1,070), depending on qualifications and experience. Permanent, pensionable posts; medical examination. Waterworks experience an advantage, but not essential. Applicants should hold a university degree in engineering and/or be Associate Members of the Institution of Civil Engineers.

The Council has on hand an extensive programme of capital works, including the design and construction of a new main source works, reservoirs, pumping plant and large diameter mains.

Housing accommodation may be provided, if required, and a car allowance is applicable to these appointments.

A five-day week is operated.

Applications, stating age, qualifications, present and past positions, present salary and experience, together with the names of two referees, to the City Water Engineer, 65 St. Aldate's, Oxford, by 26th AUGUST, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

TONBRIDGE URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the POSITION of CLERK OF WORKS at a salary within A.P.T. Grades I and II (£610-£880), commencing salary depending upon experience and qualifications.

The appointment will be subject to: (a) The provisions of the Local Government Superannuation Acts; (b) the National Scheme of Conditions of Service; (c) the satisfactory passing of a medical examination; (d) one month's notice in writing on either side.

Applications, stating age, qualifications and experience, together with the names of two referees, should reach the undersigned on or before the 18th AUGUST, 1960.

The successful applicant will be required to supervise the construction of roads and sewers, and should be fully conversant with modern building methods.

Candidates must disclose in writing whether they are related to any member or senior officer of the Council.

Canvassing, either directly or indirectly, will disqualify.

S. J. THORNE,
Clerk of the Council.

Tonbridge Castle,
Tonbridge,
Kent.

29th July, 1960.

ROMNEY MARSH RURAL DISTRICT COUNCIL.

DYMCHURCH SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

APPOINTMENT OF RESIDENT AND ASSISTANT RESIDENT ENGINEERS.

APPLICATIONS are invited for the ABOVE APPOINTMENTS. Contract period 2-2½ years (approx.) and salary ranging from £1,000-£1,600 per annum, depending on qualifications and experience.

Only applicants with considerable experience in this class of work will be considered.

The successful applicants will be required to provide their own cars for use on the works, and will be reimbursed on the casual user's scale.

The successful applicants will be required to act under the direction of the Council's Consulting Engineers, MESSRS. D. BALFOUR AND SONS, 131 Victoria Street, Westminster, London, S.W.1, to whom applications, in writing, should be sent by the 29th AUGUST, stating age, qualifications, previous experience and date free to commence duties.

W. C. BALCHIN,
Clerk to the Romney Marsh R.D.C.

Tonbridge Castle,
Tonbridge,
Kent.

29th July, 1960.

APPOINTMENTS VACANT

LONDON COUNTY COUNCIL.

RESIDENT ENGINEERS FOR CIVIL ENGINEERING WORKS.

The above Council REQUIRES RESIDENT ENGINEERS to supervise road improvement contracts at Earls Court Road; Roehampton Vale; Mountmorres Road; Steyne; Lambeth Palace Road.

Applicants should have had experience of the supervision of road improvement contracts; the work in Lambeth Palace Road includes the construction of subways.

Salaries range between £1,000 and £1,400 a year, according to the contract.

Application Forms from CHIEF ENGINEER (GS/CJ/2043/8), The County Hall, S.E.1.

FLINTSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified and experienced persons for the APPOINTMENT of SENIOR ENGINEERING ASSISTANT (Grade A.P.T. IV (£1,065-£1,220 p.a.)) in the County Surveyor's Department, in connection with new roadworks programme.

Applicants should preferably hold an Engineering degree and/or A.M.I.C.E. and have had good experience in the preparation and execution of major schemes.

Application Forms obtainable from the CLERK OF THE COUNTY COUNCIL, County Buildings (P.O. Box No. 1), Mold.

Closing date: 22nd AUGUST, 1960.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of TECHNICAL ASSISTANT. Salary within A.P.T. II (£765-£880 p.a.) plus London Weighting.

Applicants should have passed the Intermediate Examination of the Institution of Municipal Engineers, or equivalent, and have had wide experience in the supervision and administration of minor civil engineering works undertaken by direct labour and contract.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on THURSDAY, 1st September, 1960.

(Signed) R. S. FORSTER,
Town Clerk.

FAREHAM URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ENGINEERS.

(1) PRINCIPAL ASSISTANT ENGINEER (PRIVATE STREETS)—GRADE IV (£1,065-£1,220).

(2) TWO SENIOR ASSISTANT ENGINEERS—SPECIAL GRADE (£785-£1,070).

APPLICATIONS invited from suitably qualified and experienced persons for ABOVE APPOINTMENTS in Engineer and Surveyor's Department.

Applicants must have served the recognised period of training and subsequent service, be qualified by examination of the Institution of Civil Engineers or Institute of Municipal Engineers, and had a good all-round experience in the various duties of a busy department.

The appointment is subject to the National Scheme of Conditions of Service, Local Government Superannuation Acts, a satisfactory medical examination and one month's notice on either side.

Travelling allowance on essential user's scale for 8-h.p. car will be paid. Housing accommodation available.

Applications, stating age, qualifications and experience, past and present appointments, with names and addresses of two referees or previous employers to whom reference can be made, to Engineer and Surveyor, Westbury Manor, West Street, Fareham, Hants., by 3rd SEPTEMBER, 1960.

B. W. RANDS,
Clerk to the Council.

"Merton,"
5 Grove Road, Fareham.

LONG EATON URBAN DISTRICT COUNCIL.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(a) Senior Engineering Assistant, Grade IV, £1,065-£1,220 per annum. Applicants must be fully qualified municipal or civil engineers.

(b) Junior Engineering Assistant, Grade A.P.T. I, £610-£765 per annum. Applicants must have completed a course of basic training in architecture.

The appointments will be subject to the National Scheme of Conditions of Service, and to the Local Government Superannuation Acts.

Applications, stating age, experience, qualifications, present and previous appointments, with the names of two referees, must be sent to the undersigned not later than SATURDAY, 27th August, 1960.

FRANCIS TURNER,
Engineer and Surveyor.

Town Hall,
Long Eaton.

AMMAN VALLEY JOINT SEWERAGE BOARD.

RESIDENT ENGINEER.

APPLICATIONS are invited by the above Board from suitably experienced and qualified Engineers for the POST of RESIDENT ENGINEER to supervise the execution of Contracts for sewerage and sewage disposal.

The appointment, which will be of approximately four years' duration, subject to satisfactory service, will be at a salary of £1,350 per annum. A car allowance at the rate of £104 per annum will be paid.

The appointment is subject to the Local Government Conditions of Service and the Superannuation Acts, and may be terminated by one month's notice on either side. Assistance with housing may be offered in special circumstances.

The work, scheduled to start early in November, will be under direction of the Board's Consulting Engineers, MESSRS. C. D. C. BRAINE AND PARTNERS, 26-27 St. Mary Street, Cardiff.

Applications, stating age, qualifications, experience and date when available, together with the names of at least two professional persons to whom reference may be made, should be submitted to the undersigned to arrive not later than First Post on THURSDAY, the 1st September, 1960.

M. H. EVANS,
Clerk of the Board.

49 College Street,
Amanford, Carmarthen.

August, 1960.

APPOINTMENTS VACANT

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CLERK OF WORKS AND REINSTATEMENT INSPECTOR.

APPLICATIONS are invited for the ABOVE APPOINTMENT, at a salary according to Grade A.P.T. II, £765-£880.

Applicants should be experienced in the supervision, setting out and measurement of civil engineering works, including main drainage, sewerage, road construction and reinforced concrete. The successful applicant may be required to work normal contractor's hours. Candidates must hold an Intermediate City and Guilds Certificate in a craft or be an Associate Member of the Institute of Clerks of Works or have an equivalent qualification. Applicants must also have served an apprenticeship as a craftsman and have considerable experience as a general foreman or clerk of works on large contracts.

The successful applicant will be required to hold a driving licence. The Corporation will provide transport or, in an appropriate case, an essential user car allowance may be made. Housing accommodation will be available, if required. Appointment subject to medical examination, and superannuation.

Applications, giving all details of present and previous appointments, with names of two referees, are to be sent not later than MONDAY, 29th August, 1960, to the undersigned.

A. NORMAN JAMES, Town Clerk.

Town Hall, Dewsbury.

4th August, 1960.

ST. PANCRAS BOROUGH COUNCIL.

APPOINTMENT OF REFUSE DEPO* FOREMAN.

APPLICATIONS invited for ABOVE APPOINTMENT in Borough Engineer and Surveyor's Department. £755-£815 per annum if over age 26 (Miscellaneous Grade VII). Duties: Control of manual staff, cleanliness of depot and vehicles, discharge of refuse, and salvage. Apply by letter to undersigned, stating age, present and previous employment, experience, etc., by 18th AUGUST.

R. C. E. AUSTIN, Town Clerk.

St. Pancras Town Hall, Euston Road, N.W.1.

28th July, 1960.

CITY OF CARDIFF.

CORPORATION WATERWORKS.

LLANDEGFEDD WATER SCHEME, SECTION B.

APPOINTMENT OF PIPE LAYING INSPECTOR.

APPLICATIONS are invited for this TEMPORARY APPOINTMENT, at a salary of £800 per annum (superannuable), under N.J.C. Approved Conditions of Service. The appointment is expected to last about 18 months.

The person appointed will be required to supervise the laying of large diameter pipelines in the Pontypool-Neport-Cardiff area.

Candidates should have served in a supervisory capacity in civil engineering or building work, and should be able to keep neat and accurate records. Experience in supervising the laying of large diameter pipes would be an advantage, and the candidate must be of proved integrity.

Applications, stating age, present position, education, qualifications and previous experience, together with the names of two referees, should be sent to the Water Engineer and Surveyor, City of Cardiff Municipal Offices, Greyfriars Road, Cardiff, as soon as possible.

S. TAPPER-JONES, Town Clerk.

City Hall, Cardiff.

August, 1960.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.

(Population 72,000 approx. Area 13,795 Acres.)

APPLICATIONS are invited for the APPOINTMENT OF PRIVATE STREET WORKS ASSISTANT in the Engineer and Surveyor's Department, to be engaged primarily on the Council's extensive programme of making-up private streets.

The salary will be £1,065, in accordance with the maximum point of Grade A.P.T. III (£880-£1,065).

Housing accommodation will be provided for married applicants if required; assistance given towards the cost of removal expenses; and consideration given to the payment of a car allowance.

Havant and Waterloo is a rapidly expanding South Coast district which includes Havant, Waterlooville, Emsworth and the seaside resort of Havling Island.

Application Forms and further particulars may be obtained from the ENGINEER AND SURVEYOR, 1 Park Road North, Havant, to whom they should be returned not later than 26th AUGUST, 1960.

MELFORD RURAL DISTRICT COUNCIL.

CLERK OF WORKS.

WATER SUPPLY—PROVISION OF SURFACE RESERVOIR, LONG MELFORD.
SEWERAGE AND SEWAGE DISPOSAL—PROVISION OF SEWERS AND CONSTRUCTION OF EJECTOR STATION, GREAT WALDINGFIELD.

APPLICATIONS are invited for the APPOINTMENT OF A CLERK OF WORKS, on a temporary basis, under the direction of the Council's Consulting Engineers, to supervise the construction of a reinforced concrete reservoir and the laying of about two miles of small-diameter sewers and the construction of an ejector station.

The salary will be up to 20 guineas per week, and a car allowance whilst actually engaged on the contracts, in accordance with the National Joint Council's Casual User Scale applicable to a car not exceeding 10-h.p.

Applicants should be proficient in the use of dumpy level, setting-out, checking and measuring-up work.

The duration of this appointment will be approx. nine months, subject to one month's notice on either side. Sewerage and sewage disposal schemes relating to the parishes of Great Cornard, Glemsford, Hartest and Boxted, within the Rural District, have been designed and are awaiting Ministerial approval.

Applications, stating age, qualifications, previous appointments, and giving details of experience, and the names of two referees, to be forwarded to reach the undersigned not later than FRIDAY, 26th August 1960.

J. A. SHAW, Clerk of the Council.

Council Offices, Chilton House,

Newton Road, Sudbury, Suffolk.

3rd August, 1960.

APPOINTMENTS VACANT

COUNTY BOROUGH OF EAST HAM.

ENGINEERING ASSISTANTS, A.P.T. I.

SALARY UP TO £805 PER ANNUM.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes. Further details and Application Forms, returnable by 26th AUGUST, 1960, from the TOWN CLERK, Town Hall, East Ham, E.6.

COUNTY BOROUGH OF EAST HAM.

SENIOR ASSISTANT ENGINEER (GENERAL)—

GRADE III (£880-1,065).

London Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and Application Forms, returnable by 26th AUGUST, 1960, from the TOWN CLERK, Town Hall, E.6.

COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING POSITIONS:

- (a) Senior Assistant Engineer, Grade A.P.T. IV (£1,065-£1,220).
- (b) Assistant Engineer, Special Grade (£785-£1,070), commencing salary according to experience.
- (c) Engineering Assistant, Grade A.P.T. II (£765-£880).
- (d) Engineering Assistant, Grade A.P.T. I (£610-£765).

Applicants for positions (a) and (b) should be Associate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers, or for position (a), should have experience of design and construction of reinforced concrete.

Applicants for position (c) should have passed the Intermediate Examination of the Institution of Civil Engineers, or the Institution of Municipal Engineers, or be University Graduates, and applicants for position (d) should have completed their professional training in municipal engineering, and all the appointments are superannuable and subject to medical examination.

Applications, giving age, experience, and the names of not more than three referees, should reach A. L. PERCY, Town Clerk, Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than MONDAY, the 29th August, 1960.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN, Town Clerk.

Town Hall, Huddersfield.

August, 1960.

BOROUGH OF WILLESDEN.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING PERMANENT APPOINTMENTS:

- (a) Senior Assistant Engineer, within Scale A (£1,240 x £50—£1,390 p.a.).
- (b) Engineering Assistant, within A.P.T. Special Grade (£785-£1,070 p.a.).
- (c) Engineering Assistant, within Grade A.P.T. II (£765-£880 p.a.).
- (d) Engineering Assistant, within Grade A.P.T. I (£610-£765 p.a.).

For all posts except (a) above, London Weighting is payable in addition to the salaries shown. There is no age limit, but for post (a) above, preference will be given to candidates having above average experience in structural engineering or sewerage or highway works.

The Council are unable to assist with housing accommodation.

Forms of Application and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than THURSDAY, 1st September, 1960.

When writing for Application Forms, candidates must state for which appointment they wish to apply. (Signed) R. S. FOSTER, Town Clerk.

CAISTOR RURAL DISTRICT COUNCIL.

CAISTOR AND NETTLETON SEWERAGE SCHEME.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT from persons with suitable experience.

The successful candidate will be required to supervise the execution of the above contract, which includes sewers, sewage disposal works and pumping station, total value approx. £80,000.

There is likely to be a continuity of work for about 18 months, with some possibility of further work to follow.

The salary will be at the rate of £850 per annum, depending on experience, plus a lodging allowance.

Applications, giving full personal details, details of experience, and previous appointments, and the names of three referees, should be addressed to JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6.

BAKERS—Vacancies exist in the sportsground and garden contracts department for skilled FOREMEN and CHARGEHANDS. Permanent employment; good rates and working conditions, and a contributory pension scheme. Applications with full particulars, to Contracts Manager, BAKERS NURSERY, LTD., Codsall, Wolverhampton.

BUILDING SURVEYORS (two), experienced, REQUIRED for progressive builders and contractors, for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from inquiry to final account. Apply in writing to RICHARDSON, Herbert House, Slade Green, Erith, Kent.

SITE ENGINEER for civil engineering work near London. Experience should include setting out for tunnels in built-up areas. Good pay and progressive career offered to right man. Bonus and pension schemes in operation.—Full particulars to Box V.2394, "The Contract Journal."

SENIOR AGENT for tunnel contract in London area. The applicant should have wide experience of work with shield and in compressed air. Progressive position with developing company. Pension and bonus schemes in operation. Write Box V.2395, "The Contract Journal."

APPOINTMENTS VACANT

A FIRST-CLASS ESTIMATOR for roads and playing fields contractors. Must be keen and energetic. Good wages will be paid to the man who is prepared to work hard.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

REQUIRED immediately.—A first-class Blaw Knox PF90 OPERATOR. Top wages, subsistence and travelling allowance to the right man.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

BAKERS.—There is a vacancy in the contracts department for an additional ASSISTANT to work with the Contracts Manager. Applications are invited from experienced men of good education and professional experience in the construction of sports fields and gardens. Salary will be fixed according to experience; a car provided if required; and business expenses paid. The appointment is permanent and there is a contributory pension scheme.—Applications in confidence, with full particulars, to A. A. Austin, Contracts Manager, BAKERS NURSERY, LTD., Codsall, Wolverhampton.

E. S. GATES, LTD.

Vacancies for AGENTS and GENERAL FOREMEN. Top-grade AGENTS and GENERAL FOREMEN REQUIRED for several interesting contracts, varying from £50,000-£250,000 in Bucks., Berks. and Herts. Only men with first-class experience and references need apply to:

E. S. GATES, LTD.

Chalfont Station Road, Amersham, Bucks.

SOUTH-WEST ENGLAND. — National contractors invite applications from experienced men for the following positions for their local office: SUPERVISORS, preferably engineer-trained, with good experience in the control of a number of medium- and large-sized reinforced concrete contracts essential, together with knowledge of modern methods of construction and planning; GENERAL FOREMEN, preferably carpenter-trained and with experience in charge of reinforced concrete construction; SENIOR PLANNING ENGINEERS, for pre-estimate planning, detailed programming of structural and building contracts, including co-ordination of site planning engineers. All trades, with specialised knowledge of reinforced concrete work. The appointments will be to the permanent staff and offer interesting and varied work, with excellent opportunities for increased responsibility and/or advancement to more senior positions, with appropriate remuneration. Please send full details, in confidence, to Box No. SW3609, A.K. Advertising, 212a Shaftesbury Avenue, W.C.2.

AGENTS and ENGINEER-AGENTS REQUIRED for contracts in Midlands. Thoroughly experienced reinforced concrete, modern road construction. Excellent prospects for right men in expanding organisation.—Full particulars, salary, when free, to MARTIN COWLEY, LTD., Hanford, Stoke-on-Trent.

ESTIMATOR (A.M.I.C.E./Graduate preferred) REQUIRED by West Cheshire civil engineering and building contractors. Applicants, preferably aged 25-35, should have had contract experience using methods, and be able to estimate and tender and interesting tendering over a wide price range. Permanent position with pension scheme. Modern office. Good salary and scope for experienced Engineer. Write giving summary of training and experience, present salary, etc., to Box V.2445, "The Contract Journal."

SITE ENGINEER REQUIRED for civil engineering contracts in London area.—Applications, giving details of experience, to CAFFIN AND CO., LTD., 25 Craven Street, W.C.1.

OFFICE MANAGER for civil engineering contractors' office, S.W.1 area. Applicants must have held similar position in contractors' head office, with experience in general office organisation and costing, etc. The position offers an interesting and progressive career to successful applicant. Write Box V.2455, "The Contract Journal."

SENIOR REPRESENTATIVES REQUIRED for contractors' plant organisation in North Midlands, with numerous agencies, including new agency for earthmoving equipment. Previous experience and connection essential. Generous salary, car, profit-sharing and pension scheme. — Write Box V.2430, "The Contract Journal."

WIMPEY

Applications are invited from SENIOR BUILDING AGENTS and GENERAL FOREMEN for contracts in London and Home Counties. Applicants must have considerable experience of city building, including multi-storey developments. Excellent prospects for right men, with superannuation scheme after probationary period.—Applications to:

The Manager, Department 1, GEORGE WIMPEY AND CO., LTD., 27 Hammersmith Grove, London, W.6.

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), LTD., invite applications from COST AND BONUS SURVEYORS experienced in measuring completed site works and assessment of targets. Permanent and pensionable positions with good prospects.—Apply in confidence, stating age, experience in detail, and salary required, to Personnel Manager, (CJ/K3438), 1 Queen Anne's Gate, London, S.W.1.

THE LONDON FERRO-CONCRETE CO., LTD. BONUS ENGINEER.—Applications are invited for the above position from Work Study Engineers, Surveyors or other applicants with experience of operating bonus schemes in the building and civil engineering industry. The successful candidate will be responsible for developing a new bonus scheme for various sites throughout the country.—Applications should be addressed to the Contracts Manager, Maxted Close, Hemel Hempstead, Herts.

QUANTITY SURVEYOR, well experienced, REQUIRED for site measurements, preparing interim valuations and final accounts on all classes of building and civil engineering work. Pension scheme in operation.—Write, in confidence, stating age, experience, and salary required, to General Manager, Constructional Department, CAWOOD WHARTON AND CO., LTD., Southlands, Harrogate, Yorkshire.

AGENT REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract with excellent opportunities for advancement. Good salary and conditions, and entry into superannuation scheme after 12 months' service.—Write Box V.2369, "The Contract Journal."

APPOINTMENTS VACANT

LOVATT, Wolverhampton.—ESTIMATOR.—We have a vacancy in our estimating department at Wolverhampton for an experienced Estimator age 30 years or over. Previously employed by similar company and experienced in estimating for major building works. The appointment is permanent and will carry a good salary with pension scheme, etc. Applications will be treated in strict confidence, and should be addressed to Personnel Manager, WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

MOWLE BRIDGE CO., LTD. REQUIRE additional SUPERVISORS for asphalt surfacing contracts. Duties will be to control and organise the work of road gangs operating in the London area. Experienced and practical men are invited to apply in writing, with details of training, previous positions, age, etc., to 19 Grosvenor Place, S.W.1. A good salary commensurate with experience is envisaged, and a car is provided, or allowance paid. A pension scheme operates after probationary period. All replies treated as confidential.

CIVIL ENGINEER-AGENT

Top salary and opportunity to join old-established public works company with excellent prospects for the future. Senior man required immediately for interesting two-year contract in London area. Previous experience essential in control of dual carriageway, in-situ piling and large R.C. bridge construction. Apply, in strictest confidence, giving details of qualifications and experience and when available to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, S.W.1.

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimates. House available. Write, giving full details of experience and qualifications, and state salary required, to Box V.1715. "The Contract Journal."

ENGINEER REQUIRED to supervise contracts in the South. This is a senior appointment in an expanding company, with good conditions of employment. Applicants should have had experience of controlling building and civil engineering contracts. Preference will be given to first-class men who have had experience with precast as well as in-situ concrete construction. Applications, giving experience, qualifications, age and salary, in confidence to: **THE LONDON FERRO-CONCRETE CO., LTD.,** Maxted Close, Hemel Hempstead, Herts.

A COMPANY with extensive on-site coating contracts involving blast cleaning and spray application of modern synthetic coatings, REQUIRES **RESIDENT ENGINEER/AGENT** to take sole charge of automated equipment and gang of 20 specialist operatives on 18-month contract, involving underground work, in the U.K. Permanent employment as Site Engineer available to suitable applicant.—Please write to Box V.2400, "The Contract Journal."

GENERAL FOREMAN

Top salary and opportunity to join old-established public works company with excellent prospects for the future. **GENERAL FOREMAN** REQUIRED immediately for two-year contract in London area. Previous experience essential in control of dual carriageway, in-situ piling and large R.C. bridge construction. Apply, in strictest confidence, giving details of experience, likely following of tradesmen and labour and when available, to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, S.W.1.

SURVEYORS.—An opportunity exists with national contractor offering promotion and advancement to suitable applicants for the following positions: **SENIOR SURVEYOR: MEASURING SURVEYORS.** REQUIRED initially for large building contract in West London. Experienced in measurements for all trades for final account, and measuring and settling sub-contractors' accounts. Able to work with minimum supervision.—Apply in writing to Box V.2448, "The Contract Journal."

BUILDING AGENTS AND GENERAL FOREMEN.—If you are qualified by training and you have had experience of recent years in controlling major building contracts from start to finish, with a minimum supervision from head office, and wish to join the permanent contract staff of an old-established company who are expanding their organisation in the Midlands area, we can offer you a position with a good salary, and there is a pension and bonus scheme. Only top-grade men need apply.—Applications invited, in strict confidence, to Personnel Manager, WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

CIVIL ENGINEERS

Opportunity to join old-established public works company with excellent prospects for the future. **CIVIL ENGINEERS** REQUIRED immediately for interesting two-year contract in London area, with experience in setting out and construction of new dual carriageways, in-situ piling and large R.C. bridges. Apply, in confidence, giving details of qualifications and experience and when available, to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, S.W.1.

EXPERIENCED ESTIMATOR REQUIRED by Yorkshire firm of building contractors. Good opportunity with progressive company. Pension scheme in operation. Write, stating age, experience, and previous employers, and salary required, to Box V.2411, "The Contract Journal."

WAGES CLERK, conversant with building and civil engineering industries, REQUIRED for head office of large organisation in London, N.W.6. Salary according to age and experience. Excellent pension and life assurance schemes.—Write full details of age, experience, and salary required to Box V.2419, "The Contract Journal."

ENGINEERS.—Engineers REQUIRED for large contract shortly to commence in West London. Applicants must be used to accepting responsibility and working with maximum accuracy. Excellent opportunity for promotion and advancement for the suitable applicants.—Apply in writing to Box V.2449, "The Contract Journal."

CONTRACT SUPERVISOR REQUIRED by piling specialists. Should be prepared to travel in British Isles. Car provided. Superannuation scheme. Good prospects for right man.—Apply **JOHN GILL CONTRACTORS, LTD.,** 123 Pall Mall, London S.W.1.

APPOINTMENTS VACANT

SENIOR ENGINEER/SUB-AGENT REQUIRED for power station contract by major firm of civil engineering and building contractors. This is a permanent appointment with prospects of rapid promotion to Agent and has ample scope for further advancement thereafter for the right applicant. Write Box V.2434, "The Contract Journal."

LEADING firm of building and civil engineering contractors have a vacancy in their structural engineering section for a **SENIOR SURVEYOR** well experienced in the preparation of interim calculations, measurement of variations, and preparation of final accounts. The successful applicant will be based in the Central London head office and will be given the immediate responsibility for a new and interesting project in Central London. The position is permanent and pensionable, and offers good opportunities for progress within an expanding organisation. Please send full details, in confidence, to Box No. LF.3605, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

CLERKS OF WORKS, with experience of steel-framed and reinforced concrete structures, REQUIRED for projects starting in: London area (a) November 1960 (b) January, 1961; Bedfordshire (a) November, 1960, (b) December, 1960; Mid-Lancashire (a) August, 1960, (b) November, 1960; Glasgow area (a) August, 1960, (b) November, 1960. Duration of contracts 12-18 months. Write, giving particulars of experience, and salary required, to Box V.2441, "The Contract Journal."

CIVIL ENGINEERING contractors REQUIRE **ASSISTANT CIVIL ENGINEERS** for site works in the Midlands and South. Opportunities for design experience occur from time to time. Staff superannuation and life assurance scheme (non-contributory) in operation. Preference in this instance given to young men, giving age, education, qualifications, training and experience, to Box V.2440, "The Contract Journal."

SITE AGENTS AND GENERAL FOREMEN

SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the above positions.—Applicants, who must be fully experienced in carrying out major building contracts of all types, should forward all details to:

SIR LINDSAY PARKINSON AND CO., LTD.,
Building Director,
6 Lambeth Road, London, S.E.1.

THE LONDON FERRO-CONCRETE CO., LTD. AGENTS.—Several vacancies now occur, due to rapid expansion, for experienced young Agents able to control the construction of precast and in-situ reinforced concrete structures up to £100,000. Top salaries will be paid to good men, and there are excellent prospects for promotion to Contract Supervisor.—Details of age and experience should be sent to the Contracts Manager, Maxted Close, Hemel Hempstead, Herts.

COST SURVEYOR, experienced, REQUIRED for head office appointment in S.W. London, with international concern. Must be fully conversant with all aspects of civil engineering. Age 24-28.—Reply to **WYSESS, U.C.O.,** Wesleigh House, 42 Coombe Road, New Malden, Surrey, or phone Malden 8640.

CIVIL ENGINEERING contractors expanding their organisation, WISH to appoint a **SENIOR SITE ENGINEER** for roadworks and main drainage contracts in the Oxfordshire area. Salary range of £1,000-1,250 p.a. Permanent and progressive post, with superannuation scheme.—Write in confidence, stating age, full details of experience, and past employers, etc., to Box V.2433, "The Contract Journal."

CIVIL ENGINEERS. FOREMEN

Vacancies on contracts for men with experience in one or more of the following: Trunk roads, large R.C. bridges, rock tunnels and letty work.—Write, giving particulars, to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, Westminster, S.W.1.

FITTERS REQUIRED immediately for bridge contract in Worcester.—Apply on site, or write to General Foreman, **LOUNGTON CONSTRUCTION, LTD.,** Site Office, adjoining The Rectory, Primsland, near Hadzor, Droitwich, Tel: Droitwich 2004.

EXPERIENCED EXCAVATOR DRIVERS REQUIRED for Smith 21, 19RB and 22RB, for bridge contract in Worcester. Bonus paid.—Apply on site or write General Foreman, **LOUNGTON CONSTRUCTION, LTD.,** Site Office, adjoining The Rectory, Primsland, near Hadzor, Droitwich, Tel: Droitwich 2004.

ASSISTANT ENGINEER (Civil) REQUIRED for their London office by the Crown Agents for Oversea Governments and Administrations. Appointment to pensionable establishment, on probation for two years. Commencing salary between £830 at age 25 and £1,125 at age 34 or over, in scale rising to £1,300. Liberal leave, 5-day week. Candidates must be Corporate Members of the Institution of Civil Engineers or have passed Sections A and B of the qualifying examination, or hold an exempting degree. They must have had experience in the office of a civil engineer, the civil engineering branch of a municipality, or a civil engineering contractor, and experience of water supply schemes, including pumping and treatment plant and/or sewerage schemes. Alternatively, consideration will be given to candidates with experience in use of roadmaking and general civil engineering contractors' plant. Duties include examination of civil engineering projects, preparation of specifications for materials, equipment and plant, adjudication upon tenders, and correspondence of a technical nature.—Write to the CROWN AGENTS, 4 Millbank, London, S.W.1. State age, name (in block letters), qualifications and experience, and quote M2A/S1056/CA.

D.C.M. CONTRACTORS (LIVERPOOL), LTD. QUANTITY SURVEYOR AND CIVIL ENGINEERS REQUIRED for bridge and road works contracts in Lancashire and North Cheshire. Permanent positions with entry into non-contributory pension scheme after trial period.—Write, stating age, previous experience, and salary required, to Managing Director, D.C.M. (Liverpool), Ltd., Bluebell Lane, Huyton-with-Roby, Lancs.

FITZPATRICK AND SON (CONTRACTORS), LTD., have the following staff vacancies: (a) **SITE CLERK** for London area, experienced wages, checking and costs; (b) **H.O. SENIOR INVOICE CHECKER** for bought ledger department; (c) correspond with suppliers; (c) **SITE COST CLERK** for London area; (d) **H.O. COST CLERK**, contract and departmental costs. Posts permanent and pensionable.—Apply Secretary, 455 Old Ford Road, London, E.3.

APPOINTMENTS VACANT

CIVIL ENGINEERING contractors REQUIRE **AGENT** for road contract in West of Scotland. Must be experienced man and salary will be commensurate with ability.—Write, giving particulars of experience, etc., to 2875 Wm. Porteous and Co., Glasgow.

CASHIERS, WAGES CLERKS, TIMEKEEPERS. Building and civil engineering contractor has several vacancies in the above positions for young men with some years' experience on large building contracts with national contracting firms, for work on contracts in the Midlands area. The positions are permanent, with a good salary.—Apply to **WILSON LOVATT AND SONS, LTD.,** Clarence Street, Wolverhampton.

REINFORCED CONCRETE DESIGNERS and DRAUGHTSMEN

With knowledge of building construction, REQUIRED by precast concrete specialists at their head office near Guildford. Varied work with good prospects, superannuation, etc. Salary by arrangement according to qualifications and experience.—Apply to:

The Senior Structural Engineer,
MARLEY CONCRETE, LTD.,
Peasmarsh, Guildford, Surrey.

CLERK OF WORKS REQUIRED by J. LYONS AND CO., LTD. (Ice Cream Division). Must have current experience on building projects up to £250,000 which are in general steel-framed on piled foundations. The applicant should have experience of heavy factory construction and will be required to act as liaison between the architects, the contractors and the building owners' technical organisation. This post is of a permanent nature and will be in the Greenford (Middlesex) area. Salary according to experience. Pension fund, Social club.—Write or telephone, giving details of previous experience and qualifications, to Personnel Manager, J. Lyons and Co., Ltd. (Ice Cream Division), Lyons Maid House, Hammersmith Grove, London, W.6.

SALES REPRESENTATIVE REQUIRED to cover the North Wales and Cheshire areas. Experience of the roadstone industry and concrete design desirable. Car provided and pension and life assurance scheme in operation. Please write, with full details of education, previous experience, and salary required, to Box T.329, Lee and Nightingale, Liverpool, 2.

ESTIMATOR REQUIRED immediately. An experienced Estimator for major building works. The appointment is permanent, pensionable and will carry a good salary.—Applicants should send full details of personal history to F. Defty, KIRK AND KIRK, LTD., Atlas Works, 287 Upper Richmond Road, Putney, S.W.15.

CIVIL ENGINEERING TECHNICAL INFORMATION SERVICE

This service, which is under the control of the civil engineering company, provides information within the Richard Costain Group on developments in design materials and techniques in the construction of sewers, tunnels and other works in heavy construction, for site work on contracts mainly in the Midlands and North of England. Applicants should have had some previous site experience and be capable of taking the responsibility for this service. Clerical and secretarial assistance is provided. Candidates should be at least 30 years of age and preferably have had some contracting experience.—Please address applications to:

Senior Personnel Officer,
RICHARD COSTAIN, LTD.,
111 Westminster Bridge Road, London, S.E.1.

CIVIL ENGINEERS, preferably qualified, REQUIRED by civil engineering contractors engaged in the construction of impounding reservoirs, sea defence works, large-diameter pipelines, trunk sewers, tunnels and other works in heavy construction, for site work on contracts mainly in the Midlands and North of England. Applicants should have had some previous site experience and be capable of taking the responsibility of supervising contracts immediately or within a short time of appointment. It is envisaged that persons between 25 and 35 years of age would be suitable and who would be of necessity mobile. Permanent and progressive appointments are available, with attractive salaries and allowances.—Apply, giving details of age, experience, etc., to **LEHANE, MACKENZIE AND SHAND, LTD.,** Matlock, Derbyshire.

SURVEYOR.—Competent Building Surveyor REQUIRED. Fully experienced in taking-off quantities, interim applications, and the preparation of accounts. Post is permanent and pensionable. Write, giving full details of personal history, to F. Defty, KIRK AND KIRK, LTD., Atlas Works, 287 Upper Richmond Road, Putney, S.W.15.

ESTIMATING SURVEYOR. Must be fully conversant with all aspects of the building and civil engineering, tabling for estimating, taking-off, site measuring, preparation of interim certificates.—Details of experience, technical training, salary required and when available (Birmingham area), to Box V.2460, "The Contract Journal."

CIVIL ENGINEERS, with experience of contracting at home and overseas and who require a settled home near London are invited to apply for a senior vacancy as **ESTIMATOR** at head office of contractor near Buckingham Palace.—Write brief details of experience to Box V.2461, "The Contract Journal."

CIVIL ENGINEERING FOREMAN REQUIRED. Must be conversant with earthworks, drainage, mechanical laying and finishing of concrete runway operations. Previous experience in control of this type of work essential.—Please apply to Personnel Officer, **RICHARD COSTAIN, LTD.,** 111 Westminster Bridge Road, London, S.E.1.

QUANTITY SURVEYOR REQUIRED by contractors engaged in surfacing and private street works contracts in London and South of England.—Write Box V.2462, "The Contract Journal."

GENERAL FOREMAN REQUIRED for night shift operations on a large factory construction. Must be experienced in the erection of concrete frame structures. Knowledge of sliding shuttering an advantage.—Please apply in writing to Personnel Officer, **RICHARD COSTAIN, LTD.,** 111 Westminster Bridge Road, London, S.E.1.

EXPERIENCED STEEL FIXERS REQUIRED for long-term contract.—Please apply to T. J. KENDALL at 2 Portlary Street, Manchester, 1.

J.C.B. OPERATOR REQUIRED. Must be experienced and prepared to travel. Subsistence or travelling time and fares. Permanent position.—Apply **STAVERTON CONTRACTORS, LTD.,** Racecourse, Totnes (T292).

APPOINTMENTS VACANT

RESIDENT ENGINEER, having experience of road-works and concrete bridgeworks, **REQUIRED** for new works at Oxford. Remuneration £1,300 to £1,600 per annum.—Apply in writing to **R. TRAVERS MORGAN AND PARTNERS**, 60 Rochester Row, London, S.W.1.

MEARS BROS. (CONTRACTORS), LTD.—**SUB-AGENTS, SECTION ENGINEERS AND SITE ENGINEERS** required for civil engineering contracts in the South of England. Good prospects for keen men with previous contracting experience. Superannuation scheme in operation.—Apply in writing, giving particulars of training, experience, previous employers, age, and salary grade, to Personnel Manager, 154 Sydenham Road, S.E.26.

CONCRETE ENGINEER OR CHEMIST required to take technical control of quality of large quantities of ready-mixed concrete in Sheffield area. Applicant must have had experience in concrete laboratory testing procedures and trouble-shooting in the field. To a man with drive and initiative, this permanent position offers unique opportunities—world-wide company in an expanding industry.—Reply in confidence to Technical Director, **READY MIXED CONCRETE, LTD.**, 2/3 The Sanctuary, London, S.W.1.

MICHIGAN (GREAT BRITAIN), LTD.,

REQUIRE a **SALES OFFICE ASSISTANT**. Candidates should be between 25 and 30 and have had previous experience in an organisation dealing with earthmoving equipment. Duties will include office administration, sales letter correspondence and sales analysis. The successful applicant will be required to live in or near Camberley.—Apply to:

The Personnel Officer,
MICHIGAN (GREAT BRITAIN), LTD.,
P.O. Box 3, Yorktown Works, Camberley, Surrey.

ESTIMATING—Young Civil Engineers with some site experience, who are interested in this branch of the contractors' organisation, are invited to send brief details of their experience, for selection for head office appointments in London (Victoria). Write Box V.2484. "The Contract Journal."

CASHIERS AND COST CLERKS urgently required for building contracts in the U.K. Good salary and prospects. Pension scheme.—Write Dept. C.C.C., **SIR LINDSAY PARKINSON AND CO., LTD.**, 6 Lambeth Road, S.E.1.

WAGES/COST CLERK, preferably below 30 years of age, **REQUIRED** by civil engineering and building contractors. Negotiated salary, according to age and experience.—Apply in writing to **STANLEY RAYMOND AND CO., LTD.**, Sussex Road, Southall, Middx.

SALES REPRESENTATIVES required in Scotland, Yorkshire and Leicestershire by rapidly expanding manufacturers of contractors' plant. Exceptional ability, drive and personality are essential. Good salary, commission and prospects.—Written applications, giving fullest information, in confidence, to Box V.2485. "The Contract Journal."

PLANT HIRE CLERK—Applications invited for appointment in the plant hire department of our head office at Mitcham Road, Croydon, Surrey. The position offered is one with every opportunity of advancement with our rapidly expanding plant hire company. Preference given to ambitious young men with previous experience in a similar capacity.—All applications should be addressed to the Managing Director, **GENERAL ROADWORKS, LTD.**, 616 Mitcham Road, Croydon, Surrey.

NATIONAL building and civil engineering contractors invite applications for the following positions: **CONTRACTS SUPERVISORS**, preferably with a recognised qualification in building or structural engineering and with good experience in control of a number of major works involving extensive reinforced concrete construction. **GENERAL FOREMEN**, with experience of major building or civil engineering works. **SECTION FOREMEN**, preferably carpenter-trained and with experience in charge of smaller works or sections of larger contracts. The positions are permanent and pensionable, and offer good opportunities for advancement within an expanding organisation. Salaries will be commensurate with the responsibilities involved.—Please send full details, in confidence, to Box No. N.B.3627, A.K. Advertising, Ltd., 212a Shaftesbury Avenue, London, W.C.2.

SURFACE MAINTENANCE SERVICES, LTD.

REQUIRE the following contracts staff for their civil engineering contracts:—

SENIOR AGENT—To take charge of a trunk road contract in the south of England, which includes earthworks, drainage, reinforced concrete bridge works and road construction.

AREA AGENT—To take charge of a number of medium-sized road and sewer contracts in the Home Counties, having a turnover of £20,000 per month.

SITE ENGINEERS—For setting out, measuring and general site works on civil engineering contracts in the Home and Southern Counties.

ASSISTANT QUANTITY SURVEYORS—For site work, measuring for interim and final accounts for contracts in the Home and Southern Counties. All the above appointments are permanent, with excellent prospects for advancement.—Applications, stating age, experience, qualifications, present salary and enclosing copies of references, to:

Personnel Manager,
SURFACE MAINTENANCE SERVICES, LTD.,
124 Old Christchurch Road, Bournemouth.

STRUCTURAL ENGINEERS—Vacancies exist for **STRUCTURAL DESIGNERS** and **DESIGNER/DETAILERS**. Positions are available which offer excellent prospects and opportunity for permanency. Pension scheme.—Apply in confidence, giving age, details of education, training, qualifications and experience, with an indication of salary required, to Personnel Officer, **ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, 395 George Road, Erdington, Birmingham, 23.

WORK STUDY ENGINEER required by progressive South London company of building and civil engineering contractors. Must have some experience in method study and work measurement, to join a well-established team using and supplementing synthetic standards for materials handling, plant, design and pretender research. H.N.C. or I.O.B. standard, age 24-30. Pension scheme; free life insurance, and assistance with housing if necessary. Please write, stating experience, and salary required, to Box V.2500. "The Contract Journal."

APPOINTMENTS VACANT

CIVIL ENGINEERING ESTIMATORS—A leading building and civil engineering contractor wishes to appoint an additional Estimator to the civil engineering department. Applications are invited from men, aged about 35, who have had good experience of estimating for all types of civil engineering construction. The appointment offers excellent scope for progress in an expanding section of a large organisation and has good salary and conditions.—Please send full details to Box No. C.E.3619, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

J. I. CASE COMPANY, LTD.,

Will appoint additional **AREA REPRESENTATIVES** in the North-East, Midlands, South-East.—If you are an absolutely first-class Earthmoving Representative and you wish to join a progressive and rapidly expanding company, we invite you to apply, in the first instance, in complete confidence, to:

Sales Manager,
J. I. CASE COMPANY, LTD.,
Mill Road, West Drayton, Middlesex.

GENERAL FOREMEN, SECTION FOREMEN required immediately for the Bristol-Birmingham Motorway.—Apply **A. MONK AND CO., LTD.**, Whittington Lodge, Whittington, near Worcester. Tel.: Worcester 27034.

AGENT—A vacancy has arisen for a well-qualified **CIVIL ENGINEERING AGENT** to take charge of a section of work to the value of £1m., forming part of a large heavy civil engineering contract in London. Applications are invited, preferably from qualified men who have had good experience of general heavy civil engineering contracts.—Please send full details to Box No. A.A.3623, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

D. T. BULLOCK AND CO., LTD., SEEK a **TECHNICAL CLERK**. Due to a promotion from within this company, the above position is again vacant, and applications are invited from young men under the age of 25 for a post offering excellent opportunities of advancement to management level in a progressive, expanding firm of civil engineering and building contractors. Applicants should have good commercial experience, preferably in contractors' head office and/or site office. Duties will include buying, progressing materials, plant and transport control. Good commencing salary.—Apply in writing to Managing Director, **D. T. BULLOCK AND CO., LTD.**, Northgate, Aldridge, Staffs.

SURFACE MAINTENANCE SERVICES, LTD.

REQUIRE the following senior staff to work from their new offices and depot at Corfe Mullen, near Bournemouth:—

CHIEF BUYER—To take charge of the buying department dealing with all the groups of civil engineering contracts.

PLANT HIRE MANAGER—To control the group's plant hire company, to arrange the internal hiring of plant and equipment for all contracts, to run the plant fleet engaged on outside hire, and to negotiate all plant purchases and hiring agreements.

SENIOR COST CLERK—To take charge of contract costing for all the group's civil engineering contracts and to supervise the workshop costing section. Applicants must have had at least five years' previous experience in a senior capacity and be in a position to produce first-class references as to their ability. The appointment is permanent, with excellent prospects for advancement.—Applications, stating age, experience, present salary and enclosing copies of references, in confidence, to:

Personnel Manager,
SURFACE MAINTENANCE SERVICES, LTD.,
124 Old Christchurch Road, Bournemouth.

APPLICATIONS are invited for appointments to the permanent staff of a major building and civil engineering contractors from **SENIOR PLANNING ENGINEERS**, with extensive knowledge of reinforced concrete work and experience of pre-stimate planning and detailed programming of large building and structural engineering works. **CIVIL ENGINEERS**, preferably qualified and with good experience of planning, temporary works design and/or experience of heavy civil engineering construction. The appointments offer excellent prospects, with good salary and conditions.—Please send full details to Box No. A.A.3631, A.K. Advertising, Ltd., 212a Shaftesbury Avenue, London, W.C.2.

EXPERIENCED PLANT FITTER required immediately for Twickenham, Middlesex, area. Good wages and conditions.—Apply in writing to **SLOGGETTS (ENGINEERING) CO., LTD.**, 209 High Street, Hampton Hill, Middlesex.

APPLICATIONS are invited from men, aged between 20 and 35 years, for positions as **JUNIOR CIVIL ENGINEERS**. These posts offer excellent opportunities for young men wishing to gain site and design experience of heavy civil engineering, and will be within a site office organisation engaged on varied and interesting projects in the iron and steel industry. Candidates should hold a degree or H.N.C. in civil engineering, with extensive knowledge of civil engineering.—Application forms are available from the Manager, Staff and Labour Relations Department, **RICHARD THOMAS AND BALDWIN, LTD.**, Red-bourn Works, Scunthorpe, Lincolnshire, and should be returned by Saturday, 27th August, 1960.

BUILDERS' AGENT—Large private housing development, including roads and sewers in North Staffs/Cheshire area. Staff appointment.—Write, stating experience, and salary required, to Box V.2472. "The Contract Journal."

YOUNG ENGINEER/SUB-AGENT, for building and public works contracts with expanding company.—Written applications, stating age, qualifications and experience to **BISHOPS CIVIL ENGINEERING CO., LTD.**, 76 Windsor Lane, Slough, Bucks.

ENGINEER to take charge of site investigations and soil mechanics laboratory. **REQUIRED** by consulting engineers in Westminster. Excellent opportunity for well-qualified, energetic man to secure pensionable post.—Write Box V.2470. "The Contract Journal."

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Advertisements received too late for Classification

COUNTY BOROUGH OF GREAT YARMOUTH.

HIGHWAYS ACT, 1959.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of GRANVILLE ROAD, CENTURY ROAD, and Adjacent Passages.

The work includes Excavation, Hardcore Foundation with Rolled Asphalt Surfacing for approx. 1,080 sq. yd. of Carriageway, Kerbing, Precast Concrete Footpaths 5ft. wide, and Surface Water Gullies with Connections, etc.

Plan, Form of Tender, Bills of Quantities, Specification and Conditions of Contract may be obtained from the Borough Engineer, Town Hall, Great Yarmouth.

Tenders, in plain sealed envelopes endorsed "Making-up of Granville Road," must reach me not later than 2nd August, 1960.

The Corporation does not bind themselves to accept the lowest or any Tender.

FARRA CONWAY.

Town Clerk.

Town Hall,
Great Yarmouth,
10th August, 1960.

BOROUGH OF DOVER.

HIGHWAYS ACT, 1959. CODE OF 1992.

DEANWOOD ROAD—STAGE 2.

FIXED-PRICE TENDERS are invited for the MAKING-UP of the ABOVE-MENTIONED ROAD. The works include approx. 1,000 sq. yd. of Carriageway, 400 sq. yd. of Footway, and 140 lin. yd. of 9in. Surface Water Sewer, with Manholes, Gullies, etc.

Specification and Bills of Quantities may be obtained from the Borough Engineer, Brook House, Dover, on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn, and the Drawing may be inspected at the same address during normal office hours.

Tenders, in envelopes provided, should reach the undersigned not later than WEDNESDAY, 31st August, 1960.

JAMES A. JOHNSON.

Town Clerk.

New Bridge House,
Dover,
5th August, 1960.

BOROUGH OF BATLEY.

PRIVATE STREET IMPROVEMENT.

TENDERS are invited for the CONSTRUCTION of HILL CRESCENT, Howden Clough, in accordance with the Plans. Specification and Bill of Quantities prepared by the Borough Engineer. The work includes Excavating, Sewering, Leveling, Paving, Tarmacadam and Fine Cold Asphalt Surfacing, Flagging, Kerbing, etc., and Making Good the above road. The length of this road is 140 lin. yd. approx.

A copy of the Specification and Bill of Quantities may be obtained on application to the Borough Engineer, Hanover Street, Batley.

Tenders, in a plain sealed envelope (not bearing any name or mark indicating the sender), endorsed "Hill Crescent Private Street Improvement," must be delivered to the undersigned by First Post on MONDAY, 12th September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

L. O. BOTTOMLEY.

Town Clerk.

BRADFIELD RURAL DISTRICT COUNCIL.

STRATFIELD MORTIMER DRAINAGE.

ADDITIONS TO TREATMENT WORKS.

CONTRACT NO. 22.

The Council is prepared to receive TENDERS for the CONSTRUCTION of the FOLLOWING:

- A Settlement Tank.
- A Filter with Rotary Distributor.
- A Humus Tank.
- Two Rotary Distributors to existing Filters.

The Tenders shall be in accordance with the Plans and Specification prepared by the Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Artillery Row, Victoria Street, Westminster, S.W.1.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer on payment of Five Pounds (cheque only, made payable to the Council), which will be returned upon the receipt of a bona-fide Tender.

Drawings may be inspected at the Offices of the Engineers or at the Council Offices, Reading.

Sealed Tenders, endorsed "Stratfield Mortimer Drainage—Contract No. 22," addressed in a plain package to the undersigned at the Council Offices, 26 Bath Road, Reading, must be delivered on or before Noon on MONDAY, the 12th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) H. A. CHAMP.

Clerk to the Council.

Council Offices,
26 Bath Road,
Reading, Berks.

NORTH EAST WARWICKSHIRE WATER BOARD.

BEDWORTH WATERWORKS.

TENDERS, to be received not later than 10 a.m. on FRIDAY, 2nd September, 1960, are invited for the CONSTRUCTION of a FILTER HOUSE and REINFORCED CONCRETE AERATION TANK at BEDWORTH WATERWORKS.

Further particulars may be obtained from the undersigned, on payment of a deposit of £2 2s., made payable to the Board.

G. ASHTON.

A.M.I.C.E., A.M.I.W.E.,
Engineer and Manager.

Pool Bank Street,
Nuneaton.

CONTRACTS SUPERVISOR REQUIRED by medium-sized firm of reinforced concrete specialists in the Midlands. Successful applicant will be based at head office and will be responsible for the supervision of a number of contracts in various parts of the country. Car provided. Good salary; pension scheme. Write, giving details of experience, etc., to Box V.2498, "The Contract Journal."

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.

REFUSE TRAILER.

TENDERS are invited for the SUPPLY of ONE STEEL-BODIED REFUSE TRAILER.

Specification, etc., from Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of £1, refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in sealed envelopes provided, to be undesignated not later than First Post, WEDNESDAY, 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. V. POWELL.

Town Clerk.

Guildhall,
Kingston-upon-Thames,
5th August, 1960.

BOROUGH OF MAIDSTONE.

FOOTPATH IMPROVEMENT CONTRACT.

TENDERS are invited for the RESURFACING of FOOTPATHS in PARTS of 12 ROADS in MAIDSTONE, including Precast Concrete Kerbing and Cold Asphalt and Tarmacadam Surfacing.

Specifications and Bills of Quantities may be obtained from the office of the Borough Engineer, Palace Avenue, Maidstone.

Tenders, in plain sealed envelopes endorsed "Footpath Improvement Contract," must reach the undersigned not later than 10 a.m. on TUESDAY, 30th August, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

T. SCHOLES.

Town Clerk.

13 Tonbridge Road,
Maidstone.

NEW MILLS URBAN DISTRICT COUNCIL.

MAKING-UP OF ST. GEORGE'S ROAD.

FIXED-PRICE TENDERS are invited for the WIDENING and MAKING-UP of THIS ROAD, involving approximately 3,070 sq. yd. of Roadworks, including Excavation, Pitching, Kerbing, Tared Macadam Surfacing, Turfing, Gully Connections, Erection of Two Street Lighting Columns, together with incidental Works.

A copy of the Drawing and Conditions of the Contract can be seen at the office of the Council's Surveyor, from whom Form of Tender, Specification and Bill of Quantities can be obtained.

Tenders, in the envelope provided, to reach the undersigned by 9 a.m. on THURSDAY, the 1st September, 1960.

J. BAILEY.

Clerk of the Council.

Town Hall,
New Mills,
Near Stockport.

PICKERING URBAN DISTRICT COUNCIL.

WATER MAIN EXTENSIONS.

CONTRACT NO. 2.

TENDERS are invited from responsible and experienced contractors for the PROVISION and LAYING of about 5,000 yd. of 4in. and 3in. dia. IRON PIPE WATER MAINS and SIX SECTIONS within the URBAN DISTRICT OF PICKERING, YORKS.

Plans, Specification and Bills of Quantities may be seen at the office of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Key Plan, Specification and Bill of Quantities can be obtained from them on and after Monday, 8th August, 1960, on payment of a deposit of Five Guineas (by cheque payable to the Pickering U.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn and the return of all documents loaned the contractor for the purpose of making-up a Tender within seven days of a notice of a Tender being accepted.

Sealed Tenders, endorsed "Water Main Extension," to be delivered to the undersigned in a plain sealed envelope not later than 12 noon on SATURDAY, 3rd September, 1960.

The lowest or any Tender will not necessarily be accepted.

J. BROWNBRIDGE.

Clerk of the Council.

Council Offices,
Memorial Hall,
Pickering,
Yorks.

WHISTON RURAL DISTRICT COUNCIL.

EXTENSION OF CULVERT.

TENDERS are invited from experienced contractors for the LAYING of approximately 380 yd. of 18in. diameter, 350 yd. of 15in. diameter, and 50 yd. of 21in. diameter CONCRETE PIPE CULVERT.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, upon payment, by cheque only, of Three Guineas deposit, which will be returned upon the receipt of a bona-fide Tender and the return of the documents and Drawings supplied.

Sealed Tenders, marked "Extension to Preston-Winston Culvert," are to be delivered to the undersigned not later than 12 noon on WEDNESDAY, 14th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. R. HENLEY, ESQ.

Clerk of the Council.

Council Offices,
Whiston,
Prescot,
Lancashire.

APPOINTMENT of RESIDENT ENGINEERS and CLERKS of WORKS.—MESSRS. LESLIE TURNER AND PARTNERS REQUIRE Resident Engineers and Clerks of Works for the supervision of civil engineering works within 60 miles of London. Applications are invited from those who have had experience in highway bridge construction and from those with a sound knowledge of water-retaining structures.

Generally, the work is in reinforced and prestressed concrete, but one contract is in steelwork. Consideration will also be given to the employment, in a subordinate capacity, of experienced Engineers seeking practical work for the completion of the training required by the Institution of Civil Engineers.

Applications, stating age, and giving details of qualifications and experience, should be sent to MESSRS. LESLIE TURNER AND PARTNERS, Consulting Engineers, 6 Grove Road, Sutton, Surrey.

BOROUGH OF OLDBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a SENIOR ENGINEERING ASSISTANT within Grade A.P.T. III (£880-£1,065 per annum) of the National Salary Scales.

Applicants must have had experience in general municipal engineering works, and preference will be given to Corporate Members of the Institution of Municipal Engineers or the Institution of Civil Engineers.

The appointment will be superannuable and subject to the National Scheme of Conditions of Service, and to the successful candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than 12 Noon on 22nd AUGUST, 1960.

KENNETH PEARCE.

Town Clerk.

Municipal Buildings,
Oldbury,
August, 1960.

LEEK RURAL DISTRICT COUNCIL.

EASTERN PARISHES WATER SUPPLY—SECTION A—PART 2.

APPLICATIONS are invited for the APPOINTMENT of INSPECTORS to supervise the construction of mass concrete reservoirs and the laying of several miles of water mains under the direction of a Resident Engineer and of the Council's Consulting Engineers, MESSRS. WILCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3.

Applicants must have had good experience of concrete reservoir construction and water main laying and be well acquainted with the duties of an Inspector, and will be required to provide a car for which an allowance will be paid. The appointment will be subject to satisfactory service and will be terminated by one month's notice on either side.

Applications, in writing, with full particulars of age, experience, and previous similar appointments, and when disengaged, stating salary, allowances and travelling expenses required, with the names of two referees, or copies of two recent testimonials, should be sent to the undersigned not later than MONDAY, 22nd August, 1960.

(Signed) M. DANIELS.

Clerk of the Council.

6 Russell Street,
Leek.

5th August, 1960.

MALDON RURAL DISTRICT COUNCIL.

CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Engineer's Department at a salary in accordance with A.P.T. Grade II (£765-£880), plus travelling allowance.

Applicants should be experienced in the supervision of a general nature, including water supply and sewerage.

If required, housing accommodation will be made available as soon as possible.

Applications, on forms to be obtained from the undersigned, to be submitted by the 27th AUGUST, 1960.

L. H. HISCOTT.

Clerk of the Council.

Council Offices,
Wantz Road,
Maldon, Essex.

6th August, 1960.

MARLBOROUGH AND RAMSBURY RURAL DISTRICT COUNCIL.

RESIDENT ENGINEER.

APPLICATIONS are invited for the immediate APPOINTMENT of a RESIDENT ENGINEER to supervise sewerage contracts under the direction of the Council's Consulting Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Westminster, London, S.W.1.

The appointment in the first instance is for a contract of 18 months' duration, and there is every prospect of continuing employment for several years on future works now in course of preparation. The salary will be at the rate of £1,200 per annum.

The appointment will be subject to the following: (a) The passing of a medical examination; (b) The Scheme of Conditions of Service of the National Joint Council; (c) the appointment to be terminated by one month's notice on either side.

Applications, endorsed "Resident Engineer," stating age, qualifications and experience, together with copies of two recent testimonials, or the names of two referees, must be delivered to the undersigned not later than TUESDAY, the 23rd August, 1960.

Canvassing will disqualify.

(Signed) A. G. HUNT.

Clerk of the Council.

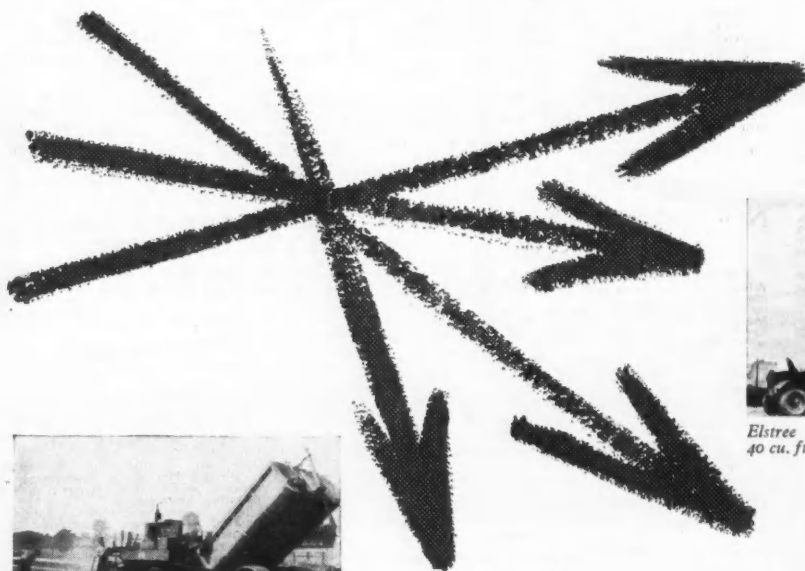
Council Offices,
London Road,
Marlborough, Wilts.

PLANNING ENGINEER.—An Engineer is REQUIRED who has had several years' site experience on building and civil engineering contracts of between £50,000 and £1m. in value, and spent some time recently in a modern planning department. The successful applicant will be expected to carry out the planning of contracts at the tender stage, and produce detailed work schedules during the constructional period. This is an opportunity for a first-class man to join an expanding company and live in one of the most pleasant parts of Great Britain. Full details, including salary required, to be sent to the Director, INDUSTRIAL DEVELOPMENT AND CONSTRUCTION, LTD., Industrial House, Stratford-upon-Avon.

PAULING AND CO. LTD. REQUIRE for their office at Sidcup a CIVIL ENGINEER with some site experience to be trained as an Estimator. He would be required to work on contract sites occasionally to keep in touch with current practice. This is an excellent opportunity for a young man with a good academic background who looks forward to a career in contract management.—Write full details to Pauling and Co., Ltd., 109 Station Road, Sidcup, Kent.

CIVIL ENGINEER REQUIRED by PAULING AND CO. LTD., initially at Derby but with the opportunity of a progressive career for an applicant who is prepared to serve elsewhere after six months. Graduate preferred, aged 25 to 30, able to set-out and measure work, and with an interest in reinforced concrete.—Write full details to PAULING AND CO. LTD., 109 Station Road, Sidcup, Kent.

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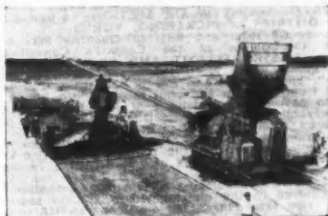
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THE CONTRACT JOURNAL

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THE CONTRACT JOURNAL

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THE CONTRACTOR
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Editor:
LAWRENCE MCCARTHY

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

THE PROBLEM OF UNLOADING

CONTRACTORS face special problems when it comes to the question of unloading vehicles on busy streets. Unlike many traders, their lorries often have to remain at the entrance to a site for long periods while materials, required for immediate use, are unloaded and properly stacked. Failure to get building materials on the site at the time they are required can seriously hamper building operations with consequent effects upon costs.

Some importance therefore attaches to a new clause in the Road Traffic and Roads Improvement Bill which was recently adopted in the House of Lords. It provides for the amendment of Clause 26 of the Road Traffic Act, 1960. So far, with London an important exception, local authorities have been able to impose bans on loading and unloading provided that reasonable access for goods vehicles is maintained. They can, in fact, impose a ban of up to six hours in any 24; but, if they seek to go beyond the six hours, the question whether such a ban would prevent reasonable access can be argued at a local inquiry. The amendment to Clause 26 removes the reference to six hours, and local authorities will henceforth be free to introduce a complete ban on loading and unloading in any street or district; this is the situation that already prevails in London today.

The inconvenience that such an extension of powers could cause has already been recognised by the British Road Federation, so often the champion of contractors' interests, directly and indirectly. In the House of Lords, Lord Derwent sought to reverse the decision; but his amendment was withdrawn when the Government spokesman had explained in rather rambling fashion:

"What I think I could do is this. I could consider whether the Minister could amend his procedure regulations to provide that, where there is an unresolved objection to any local authority order which provides for a loading ban to operate on any particular part of a street for more than six hours in 24, the local authority must send a copy of the inspector's report on the inquiry (which they have already had by virtue of the regulations) to the Minister at least one month before they make the order. This would make pretty sure that the Minister was aware of the possibility of trouble, if there was to be trouble, in advance. He might be able to talk things over, and get a local authority not to make the order, if he thought it unreasonable. If they persisted, where he found it was unreasonable he would be in a position to tackle the matter with the minimum of delay. I should have thought that my advice to your Lordships should be to leave things as they are, and not to accept my noble friend's Amendment at this stage; and, if he is agreeable to that, I shall consider the matter with a view to saying more about it at the next stage of the Bill."

So there the position stands—the Bill is in its final stages and no further amendment is possible. The fact must be faced that contractors up and down the country may be confronted with difficulties that can only be resolved if formal objections are submitted. But to be forewarned is to be forearmed, and it is clear that as soon as the Bill becomes law, probably in a matter of weeks, contractors should—at the first sign of a local authority imposing such a ban—lodge the strongest possible protest with a view to obtaining special provision for the needs of the contracting industry. Otherwise they may find that their building operations, particularly those in crowded urban areas, are immeasurably impeded and the cost of site works increased as a result of delays in the delivery of materials.

John Sumner's Notebook . . .

THE holiday season is in full swing. Many contractors are sunning themselves on the beaches of the Mediterranean or dodging the showers at Torquay, Lyme Regis, or perhaps Blackpool. Many of their staffs are doing likewise, but so full is the industry's work programme that there must always remain a working nucleus of personnel in the head offices.

What are the problems they are coping with? In many firms on Merseyside there is, no doubt, a great deal of lively speculation on the decision of Mr. Henry Brooke, Minister of Housing and Local Government, to approve the application by Vauxhall Motors for planning permission to build a factory, estimated to cost £30m., on a 400-acre site on the Wirral peninsula. The proposal represents a substantial intrusion into the proposed Wirral Green Belt, but no doubt the Minister has been influenced by the high and persistent unemployment on Merseyside generally, and has granted permission accordingly.

This speculation among the contracting firms in Merseyside is doubtless matched by similar speculation on the part of contractors in other industrial centres where proposals to build on designated green belts have been turned down. From now on they will seek to argue that what can happen in the Wirral can, or could be made to, happen nearer home. They may be right. If the decision regarding the Vauxhall Motors' development means anything at all it is that the green belts drawn up by local planning authorities are not so sacrosanct as their authors have often led developers to think they are.

As Mr. Brooke has pointed out himself in the House of Commons, the right principles for green belts are that they should be established only where there is clear need to contain the growth of a town within limits which can be defined at the time and that the limits of the belt should be carefully drawn so as not to include land which it is unnecessary to keep permanently open for the purposes of a green belt. This is a long way from a policy of "green belts at all costs," which is the idea many planners actively foster.

WHILE there will be rejoicing in the Vauxhall Motors' camp I imagine that the mood of frustration is still with Mr. Graham Clayton-Wright, the managing director of Howard Clayton-Wright, of Wellesbourne, who specialise in rubber and plastic components for the motor industry.

Mr. Clayton-Wright wants to build a store next to his factory but the Board of Trade have informed him that he must build it elsewhere. He has been told that he can obtain an Industrial Development Certificate if he builds in Wales, Northumberland or Durham. Scarcely helpful to a firm operating in the Midlands, is it?

What makes the situation even less understandable is that the number of people likely to be employed in the store will not be more than 30 at the very most, and quite half of these are already occupied on similar duties at the factory, so that even if the firm were stupid enough to build a store in Wales, Northumberland or Durham to serve a factory in the Midlands the unemployment situation in those far-off areas would hardly be improved.

While Mr. Clayton-Wright thinks out his next move perhaps the officials at the Board of Trade may like to sit down and consider practical ways of helping this industrialist rather than of hampering him.

IN the appointment of Sir Willis Jackson, F.R.S., the president of the Institution of Electrical Engineers, to the Chair of Electrical Engineering at the Imperial Col-

lege of Science and Technology, there lies something of a lesson for the building and contracting industry.

Sir Willis's appointment exemplifies the close links now existing between industry and the Imperial College at the highest level. He resigned his Chair at the College some seven years ago to become Director of Research and Education with Metropolitan-Vickers Electrical Company, now the Associated Electrical Industries. As one might expect, from this position he has exercised great influence both within the electrical industry and in the field of technological education in general. Now he is returning to his old College and his old Department. Incidentally, the Department will be moving into a new building now being constructed which will permit a great expansion of the College's work, particularly in the field of post-graduate training.

It could result in great benefit to the building industry if some of its leading technicians could be released for a period of years for work in the educational sphere. Similarly it would be of great benefit to those teaching building subjects if they could be released by the education authorities to take up posts in industry. Two-way exchanges of experience and practical application of studies of this kind would give the building industry an immense fillip. Everybody would gain. The big question is, who is going to make the first move?

TO Mr. R. Hopkins, one of the agents of John Laing and Son, Ltd., has been given the responsibility of supervising a construction job which is the first of its kind in London. In a week or so John Laing and Son will start work on the underground parking garage to be built under Finsbury Square for Lex Garages, Ltd. Mr. Hopkins will be in charge of the contract, which will be carried out to designs prepared by Messrs. Shingler and Risdon. The cost of the job will be about £4m., and it is scheduled for completion in just over a year's time. It should make a valuable contribution to the parking problem in the City, for there will be space for about 350 cars.

Reinforced concrete will be the method of construction used and at surface level there will be petrol and oil available from stations at either side of the square. The remainder of the surface area will be laid out as gardens and will include a bowling green and pavilion.

Local authorities in other parts of the country are bound to take a great interest, not only in the construction, but in the economics of this project. I wish Mr. Hopkins and his operatives every success in this interesting job.

AS this is a time of the year when many building operatives take their annual holiday it is not surprising that there should be reports of an increase in the number of householders engaging the services of the "holiday-makers" from the building industry to carry out maintenance and repair work.

The householders, I feel, do not always understand the risks they run by employing building operatives in this way. There is always the possibility of an unforeseen accident and the consequences could be financially disastrous for the householder as the legal employer. Householders cannot be expected to realise the need to carry the substantial insurance cover which reputable building firms provide for themselves against such risks.

Mr. F. W. Gibson, the president of the Rugby Building Trades Employers Association, has written giving another reason—again a financial one—why householders

should resist the temptation to employ building operatives in their spare time. It is that claims for maintenance relief against Schedule A Income Tax must be supported by receipted bills. As everyone knows, for obvious reasons these are not always obtainable from the spare-time workman.

MR. J. A. FOSTER, I am glad to report, has recently completed 50 years' service with the Newark branch of the Amalgamated Union of Building Trade Workers. According to a time-honoured custom he has been presented with a free card by the A.U.B.T.W.

Fifty years of membership of a trade union is a record of which any building operative might well be proud. The improvements brought about in the industry over that period of time have been due, in large measure, to the faith which men like Mr. Foster have had in their organisation and in the advantages which can accrue from sensible and amicable joint consultations with the employers.

Unfortunately, for every man in the building industry's ranks like Mr. Foster there is at least one who does not play any active part or take any interest in trade union affairs, and who is not even a member of his appropriate organisation. Such men ride on the backs of Mr. Foster and his union colleagues and the trade union movement and the building industry is the poorer in consequence.

I sometimes wonder if a free union card and a commemorative badge is quite enough recognition of 50 years of trade union membership. I have no doubt that Mr. Foster is satisfied, but a somewhat more grand reward in prospect might well induce many building operatives to think more positively about joining their trade organisation. I wonder whether Mr. Harry Weaver, the president of the A.U.B.T.W., has any thoughts on this?

£2M. SLOUGH HOSPITAL PROJECT

Tenders From Selected Contractors

Selected contractors are expected to be invited next October to tender for the erection of a £2m. hospital at Wexham Park, Slough, Bucks. Meanwhile, as officially announced on page 629, firms wishing to submit their names for inclusion on the selected list are to forward their names, etc., to the North West Metropolitan Regional Hospital Board by August 29.

The architects for the scheme are Powell and Moya, 36 Great Smith Street, London, S.W.1, and the work will be carried out under their supervision.

TYNESIDE DEVELOPMENT PLAN APPROVED

The Minister of Housing and Local Government has announced his approval of the north Tyneside development plan, which aims at reducing congestion in the Tyneside industrial towns and to make a start on the redevelopment of the declining coal mining area in the south-east of the county.

The approval is given subject to a small reduction in the green belt area. Ring and radial roads are included in the scheme, which provides for a new town for 17,000 people at North Killington, five miles north of Newcastle.

JUNE HOUSING FIGURES

The number of permanent houses completed in Great Britain during June was 27,348 (compared with 24,266 in June, 1959) of which local authorities were responsible for 11,674 and private builders for 15,209.

In the first six months of 1960, 143,934 houses were completed (compared with 130,016 in the same period of 1959).

PRESSURE ON THE BUILDING INDUSTRY

New Orders Continue to Increase

DEMAND on the resources of the building industry are rising. Requirements of manpower, particularly craftsmen, and of some materials, are likely to press hard on supplies. But the restraints on credit and the levelling out of public investment should help to bring demand and supply into better balance.

These are the main conclusions of a report appearing in the Treasury's *Bulletin for Industry* which states that from 1948 to 1959 output by the construction industries rose by 28 per cent. (This compared with an increase of 48 per cent. in manufacturing industry).

Set-backs to the industry's expansion occurred in 1950-52 and 1957-58. In the first of these periods demand from private persons was cut back to make room for defence building and delays were imposed on starting dates of many types of project—the industry at that time was controlled by Government licensing.

In late 1954 building controls were abolished. Output was steady in the exceptionally bad weather of 1955, but by end of the year signs of overload, notably shortage of labour and reinforcing rods, had appeared.

In 1957-58 the credit squeeze held back the industry's expansion, and local authority housing, which had reached its peak in 1953-54, continued to decline substantially (the general housing subsidy had been withdrawn at the end of 1956). Private housebuilding accelerated in 1952, and by 1958 nearly half the houses completed were for private owners.

From 1948 to 1959 the volume of gross fixed investment in dwellings and other new building and works rose by about nine-tenths. The investment total rose—with an interruption in 1951—until 1956, was then stable until 1958, and rose again rapidly last year:

(£m., 1954 prices, gross fixed capital formation)							
	1948	1950	1951	1954	1957	1958	1959
Dwellings	425	408	399	644	539	508	577
Other new buildings & works	364	518	501	611	828	852	906
Total	789	926	900	1,255	1,368	1,360	1,483

The main components moved, however, rather differently. Investment in dwellings has increased much less over the period than other forms of investment and has fluctuated more within it: in 1948 dwellings made up 54 per cent. of the total, in 1959, 39 per cent. The peak investment in dwellings was in 1954; there was then a rapid decline until 1958, which was reversed in 1959. To this increase was added a further growth in investment in all other new building and works which in 1959 was one-and-a-half-times greater than in 1948.

Something like a third of building output is on repairs and maintenance. This work, which is not included in gross fixed investment, has not changed much in volume over the years. Its value in 1959 was £772m., out of a total output by the construction industry of £2,399m.

Last Year, This Year

The volume of fixed investment rose 41 per cent. in 1959 on 1958, with most of the increase coming from building investment. The rise continued into 1960. In 1959 the construction industry raised its output by about 6 per cent. and there was a further sharp rise in the first quarter of this year.

Investment in dwellings was about an eighth higher in 1959 than in 1958, and accounted for half of the rise in total fixed investment. The increase was all in private housing, which was on a strongly rising

trend during the year; local authority housing, which had been falling sharply in earlier years, was about level. In the first quarter of 1960 there was a slight fall in local authority housing and no significant change in private:

(gross fixed investment in dwellings, £m., 1954 prices, seasonally adjusted)						
	1958		Quarters 1959			1960
	1st	4th	1st	2nd	3rd	4th
Public	63	56	60	59	60	62
Private	63	73	78	81	84	92

The value of new orders obtained by contractors for new housing points to a further rise in housebuilding this year, with the bulk of the extra demand coming from private developers. The £62m. of orders placed by public authorities in the first quarter were much the same as in each of the previous three quarters and rather less than a year earlier, when however the Government invited local authorities to start houses they could complete within the current twelve months; orders placed by private developers were double the public figure and 12 per cent. up on a year earlier:

(£m., new housing orders obtained by contractors for new work, quarterly)						
	1958		Quarters 1959			1960
	1st	4th	1st	2nd	3rd	4th
Public	72	65	57	61	61	61
Private	118	97	105	115	132	132

Other Buildings

Investment in other new building and works rose by 7½ per cent. in 1959, accounting for a half of the total rise. The trend within the year and into 1960 was strongly upwards:

(gross fixed investment in other new buildings and works)							
	1958		Quarters 1959			1960	
	1st	4th	1st	2nd	3rd	4th	1st
£m., 1954 prices	219	239	223	223	241	272	266
% rise on year earlier	1	2½	2	2	8½	14	19

Public sector building (other than housing) was rising last year; it did not change much in the first quarter, but the figures for new orders suggest that some further increase may take place later this year. Private building turned upwards in the

second half of last year and the upward trend has continued.

Orders obtained by contractors suggest that they are going to be busier than ever before on non-housing work of all kinds. Public authorities placed orders in the first quarter worth £135m. (£34m. more than a year earlier) and private developers £149m. (£38m. more). The main increase in the latter was in building for industrial purposes:

(£m., new orders obtained by contractors for new non-housing work, quarterly)						
	1958		Quarters 1959			1960
	1st	4th	1st	2nd	3rd	4th
Public	101	106	95	121	135	135
Private	111	120	110	128	149	149
Industrial	55	63	55	68	82	82
Miscellaneous*	56	57	55	60	67	67

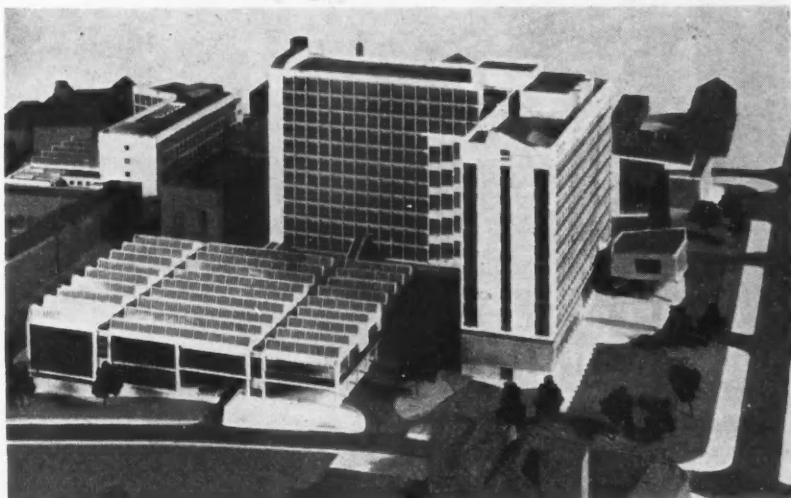
*Mainly commercial, e.g., shops, offices

The load of work has been growing fast and seems likely to continue to do so. Expenditure on local authority housing in 1960-61 is expected to be higher than in 1959-60 and private housing is increasing rapidly. Industrial Development Certificates show a sharp rise in the first quarter of 1960 on a year earlier while public sector non-housing work is expected to be considerably higher in the current financial year than in 1959-60.

Pressure on Supplies

There is some unemployment in the building industry, mainly in parts of the North-East, South-West, Wales and Scotland. Elsewhere unemployment is extremely low: there are many shortages of craftsmen particularly carpenters and bricklayers and this is the case even in areas where other labour is available, as in Scotland, for example.

Supplies of most materials increased during 1959 but local shortages of bricks were reported and there were delays in deliveries of reinforcing rods. This year supplies of bricks have been increasing (output in the first five months was 12 per cent. up on year earlier) but labour shortages have been a hindrance; reinforcing rods are being produced at a rate sufficient to meet most of the expected needs. There have been local shortages of cement but this year cement has been imported and the industry has the capacity further to raise output.



A model of the new City of Bradford Institute of Technology. Work recently started on the building which will have a total floor area of 323,000 sq. ft. and will cost £1,654,000. Six reinforced concrete columns will support the lecture theatre above the main entrance, seen on the right. The city architect, Mr. W. C. Brown, designed the building, for which the contractors are Higgs and Hill, Ltd.

STANDARD DESIGNS IN TIMBER

Work of the T.D.A. Design Department

From a Correspondent

BEFORE 1946, when the Timber Development Association opened a modest design office in Bow Lane, steel and concrete had the roofing field pretty much to themselves. Of course timber remained dominant in housing, more by tradition than enterprise but there, too, metals had begun to invade the market, taking advantage of the immediate post-war scarcity of softwood.

Building an industrial roof in timber tended to be an expensive business. For quite an ordinary structure the choice lay between time-honoured practice favouring lavish use of materials or a special design. And since design data were scanty and timber engineers hardly existed, the second course was likely to be just as costly. By contrast, timber's competitors could offer a vast array of standard components and design services which made the architect's and engineer's task plain sailing.

Once formed, T.D.A.'s design department started to catch up on years of neglect, striving simultaneously to meet the growing demand for special designs and to produce standard designs corresponding to those widely circulated by competing interests. Today, 14 years later, many of the more urgent tasks have been completed. Throughout, the Association's design team has remained comparatively small but in recent years it has been possible to spread the load by drawing on the help of accredited consultants, some of whom received specialised training in timber engineering as members of T.D.A.'s staff.

Publicity has been given to the Association's more spectacular design work, notably to the shell roofing developments of the past five years but it is not always appreciated that such achievements stand as peaks above a not inconsiderable mountain of less dramatic but equally significant activity. It is noteworthy, for instance, that the years of creative work on timber shells and glued laminated construction

have also seen numerous additions to the range of T.D.A. standard roof designs and thorough revision of all design sheets in the light of consumers' requirements and changing Code of Practice stipulations.

New T.D.A. design sheets now leaving the press bring the total number of standard designs up to 56. These designs are concerned wholly with "bolted and connected" structures which remain the bread-and-butter output of timber engineering firms in this country. They also meet, incidentally, most of current day-to-day requirements in both industrial and domestic roofing and are in line with the new emphasis on thermal insulation.

Domestic Roofing

Back in 1946, the T.D.A. design department first attacked the domestic roofing problem, evolving the T.D.A. Truss Roof (Types A and B) as the answer to both softwood rationing and light metal roofing. This, the first essay in properly engineered house roofing, proved an immediate success and over the past 14 years many thousands of T.D.A. standard roofs have been installed by local authorities and private builders. The system was first subjected to prototype testing by the Forest Products Research Laboratory in 1946 and last year further tests were carried out at the Association's Tylers Green Laboratories to ascertain whether the original design which provided for a snow loading of 10lb. per sq. ft. was adequate for the new snow rating of 15lb. per sq. ft. for pitched roofs recommended in Chapter V of the revised Code of Practice C.P.3. Tested full scale under realistic conditions, the roof gave a perfectly satisfactory performance.

Industrial Roofs

From domestic roofing the early members of the design department turned their attention to industrial roofs, designing first a range of trusses for erection on normal brick supports and supporting in

their turn a lightweight roof of asbestos-cement sheeting or similar material. Spans were adequate for a useful series of small factory, farm and storage buildings. Later, however, the first Industrial A range was developed for heavier work and greater spans and the Industrial B range came into being.

The next step forward came in 1954-55, with the production of further design sheets covering kneebraced frames (Industrial Truss Type C) designed with special reference to farm building development and the need for simple roof structures carried on timber columns.

More recently the design department has prepared design sheets illustrating a second T.D.A. house roofing system (Domestic Roof Type C) and a new series of designs (Roof Trusses Type W) for monopitch and low angle ridge trusses. The first T.D.A. house roofs (Types A and B) provided design data for 40 degrees pitch trusses carrying plain tiles and 35 degrees pitch trusses covered with interlocking tiles or slates; the later Domestic Roof Type C envisages the pitch of trusses varying between 22 degrees and 30 degrees and a roof covering of tiles or slates.

Revision

During the past two years T.D.A. designers have not only extended the range of designs, as already indicated, but have worked steadily through earlier designs, recalculating and redesigning where necessary in order to make full provision for the increased snow loading advocated by the current Code of Practice and also to permit the additional loading involved in compliance with the Thermal Insulation (Industrial Buildings) Act, which came into force last January. Originally, all T.D.A. industrial trusses, with the exception of the heavy Industrial Type B Roof (which provided for a 15lb. snow load), were designed for a snow load of 10lb. per sq. ft. Now, however, all T.D.A. pitched roofs make allowance for the increased snow loading.

In the course of revision, the old Industrial B roof design—in little demand over the years—was abandoned in favour of a modified version of the Industrial A roof calculated to permit the addition of a factory ceiling.

Thermal Insulation Requirements

In general, the requirements of the Thermal Insulation (Industrial Buildings) Act are now being met by a form of sandwich construction comprising the usual outer layer of corrugated asbestos sheeting and an underlay of ribbed asbestos with the air spaces filled with glass fibre or similar insulation. Where T.D.A. industrial trusses are concerned the somewhat increased loading is provided for by placing trusses at somewhat reduced spacings and in recent months the design department has recalculated these distances so that the new design sheets offer completely up-to-date guidance on the use of the Association's industrial designs.

While revision was in progress T.D.A. engineers seized the opportunity to extend the range of spans and, in the case of house roofing, design sheets for the two systems, A and B, and C spans, now run up to 30ft., a development which accords with the contemporary trend towards large rooms.

Future Work

At the moment the design department is working out its programme for further standard designs. During the next year or so it is hoped to extend the range of spans for the Industrial C Type Truss (kneebraced frame) from the present limit of 49ft. up to 60ft. Longer-term plans embrace the production of design sheets for a wider range of farm buildings and small hyperbolic paraboloid shell roofs. Where practicable, prototype testing will be carried out at the T.D.A. laboratories. Further work on timber footbridges and nailed trusses is also contemplated.



An artist's impression of Kenilworth Court, an 11-storey block of luxury flats to be built at Coventry by the Townsend Development Group. The block will be surrounded by three- and four-storey flats and maisonnettes and the complete development will cost about £450,000. Final drawings are now being prepared and contracts are expected shortly. Plans are by G. R. Stone, A.R.I.B.A., consultant architect to the agents, Cartwright and Son, Coventry. The structural engineers are Leonard and Grant, 171 Victoria Street, London, S.W.1

STRESS RELIEVING OF RUNCORN-WIDNES BRIDGE GIRDERS

From a Correspondent

THE stress relieving of very large or long welded fabrications can present quite a problem if suitable furnace accommodation is not available. This difficulty arose recently after the fabrication of four huge steel girders at the Chepstow works of the Fairfield Shipbuilding and Engineering Co., Ltd., for the new Runcorn-Widnes road bridge.

Each completed girder was approximately 80ft. long by 6ft. high and weighed in the region of 14 tons: they were welded fabrications constructed with $\frac{3}{4}$ in. thick webs and 1 $\frac{1}{2}$ in. thick flanges, and stiffened at regular intervals with 8in. by 3 $\frac{1}{2}$ in. by $\frac{1}{2}$ in. angles. For convenience of manufacture each girder was fabricated in two separate 40ft. lengths which were then joined by welding to produce the complete 80ft. girder.

With regard to the question of heat input, while it was known that the flexible furnaces were capable of producing a maximum temperature of 1,000 deg. C and could dissipate 50-W per sq. in. it was appreciated that they would have to be considerably underrun in order to keep to the specifications. In fact, the density actually employed was well under 25-W per sq. in.

The power for heating purposes was supplied by two standard 300-A Quasi-Arc, and two English Electric 350-A, welding transformers: these are continuous rating amperage figures. By means of a standard earth clamp the end of each transformer lead was connected to a copper busbar, to which were attached leads from several mats. As the attachment was made by means of nuts and bolts it was an easy matter to disconnect or connect leads in order to lower or increase the temperature in any particular area as the need arose.

Four-inch thick slab-type thermal insulation material was employed for lagging purposes. Two types were used, the prime lagging (adjacent to the metal surface) being capable of efficient results at temperatures up to approximately 800 degrees C: the outer or secondary lagging was also extremely efficient, but had an upper limiting temperature of about 500-600 degrees C.

Before commencing the lagging operation it was necessary to decide the size of the area to be lagged, the number and position of the heating mats, and the number and position of the thermocouples to be used for temperature control purposes. These details were then marked on the girder.

tion, the lagging being held in position by means of boards and wire rope. The girder was then turned through 90 degrees, i.e., to the position seen in Fig. 2, and the upper surface lagged in a similar manner, the total thickness of lagging being in the region of 16in.

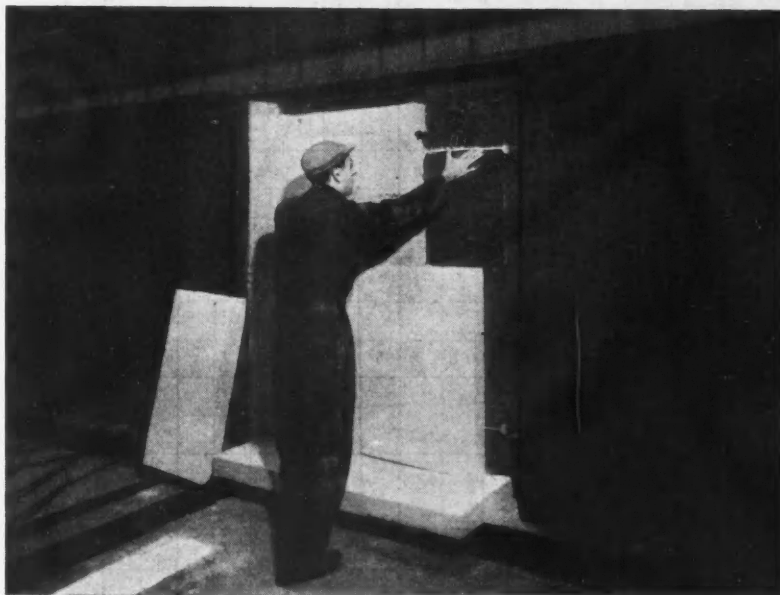


Fig. 1

After careful consideration it was decided that a minimum distance of 3ft. on each side of the weld should be lagged, and prime lagging was applied to the underside of the girder and to the inside of the flanges (on top of the mats and thermocouples), and secondary lagging then added in the manner shown in Fig. 1: this was done with the girder in the vertical position.

Because of the importance of these girders, i.e., they will carry most of the load, very strict specifications were laid down regarding the stress relief procedure for the weld joining the halves of the girders. These were as follows: heat to 650 degrees C at a speed not exceeding 150 degrees C per hour, (2) soak for a period equal to one hour per in. of the thickest part of the heated area, (3) cool to 350 degrees C at a rate not exceeding 100 degrees C per hour and, finally, (4) allow to cool naturally to room temperature.

No conventional furnaces capable of accommodating such large girders were available at the Chepstow works and Electrothermal Engineering, Ltd., were invited to undertake the stress relieving operation, using their "Flexible Furnaces." These are, in effect, mats composed of ceramic beads threaded on "hairpins" of nickel alloy resistance wire: the latter are linked together to provide a series of electrical circuits capable of giving a maximum mat surface temperature of 1,000 degrees C. Each circuit is provided with flexible leads, and by bringing in or cutting out circuits it is possible to control the mat temperature to close limits. The mats are flexible, and in one direction can be bent to a minimum radius of 1in.: thus they may be wrapped around the edges of plate, etc., without difficulty.

Problems Involved

Before commencing the treatment it was necessary to give careful consideration to certain problems arising from the close temperature cycle specifications, the considerable mass of metal involved and, in particular, the large surface area from which heat could be readily dissipated.

In particular, the Electrothermal engineers had to determine: (1) the amount of heat input required; (2) the power



Fig. 2

necessary to provide this heat; and (3) the amount of lagging necessary to conserve the heat input. Also, because of the weight and size of the girders the services of two cranes were required each time they were moved: consequently, forward planning of the movement of girders was essential because the cranes were also employed on normal shop work and were not always readily available.

Because of the efficiency of the crane drivers, it was possible to modify this procedure slightly for the third and fourth floors girders by lowering them directly on to the base lagging which remained on the shop floor when the first two girders were lifted after completion of stress relieving.

The sequence of girder treatment adopted was as follows: (a) prepare No. 1 girder and while heating was in progress prepare No. 2 girder; (b) while No. 1 girder cooled, heat No. 2 girder; (c) while No. 2 cooled, strip No. 1 and replace by No. 3; (d) heat No. 3 girder while No. 2 cooled; (e) while No. 3 cooled, strip No. 2 and replace by No. 4; (f) heat No. 4 and strip No. 3; and (g) allow No. 4 to cool. It was found that this sequence caused minimum delay.

Temperature Recording

The flexible furnaces were positioned, under the prime lagging, in the manner shown in Fig. 3, and at strategic positions under the mats were thermocouples connected to type 800 Ether temperature recorders. Special precautions were taken to ensure the uniformity of all the thermocouples: for this reason they were immersed in boiling water and the recorders checked to ensure that each gave a reading of exactly 100 degrees C. This was considered a sufficiently good check that they were all accurately matched. It was, of course, also essential to ensure that all the leads were exactly the same length, in this case 15ft.

The thermocouples not only provided a means of recording the temperature in the

areas concerned, but were also used to monitor the mats, or sections of mats. In other words, the operator watching the recorders could predetermine whether the temperature in any particular area under

mation determining what would happen in the near future.

In all, 17 thermocouples were positioned at various points around each girder, some in contact with the metal surface and others buried in the lagging. By this means very useful information was obtained relating to the temperature gradients along the girder and, also, through the lagging.

Temperature Control

Control of the heat input in order to comply with the specification cycle was achieved by varying the amperage output of each transformer, and at the switch-on stage the tappings were the lowest possible obtainable. The voltage and amperage readings were made in the conventional manner, using voltmeters and tong testers: bearing in mind that welding sets by different manufacturers and of varying age have different drooping characteristics, all measurements were taken at the terminals of the flexible furnaces.

Any tendency for one area to heat more rapidly than another was corrected without difficulty by cutting out of circuit the appropriate mats or sections of mats, and thus it was comparatively easy to ensure uniform heating over the entire weld area.

The general rise in temperature during heating was maintained closely to specification requirements by stepping-up the output of the power sources to suit the readings shown on the recorders, at the same time adjusting any local difference in the manner just described. When the temperature in all areas reached approximately 575 degrees C, i.e., about 75 degrees below soaking temperature, the voltage and amperage output of the sets were reduced in order to avoid any chance of overshooting the maximum temperature. It was found that interpretation of the curves shown on the recorders enabled the operators to predetermine very accurately the change of settings required.

Soaking was achieved comparatively easily, and the subsequent cooling-down stage amounted to little more than intelligent interpretation of the recordings. During the stage of cooling from 650 to 350 degrees C the furnaces were switched on and off as necessary to maintain a steady rate of cooling in each area: this uniformity of cooling was made possible by the fact that each heater could be independently controlled. When the temperature had fallen to 350 degrees C all heaters were switched off and the entire assembly allowed to cool naturally, without disturbing the lagging.

After the cycle had been in operation
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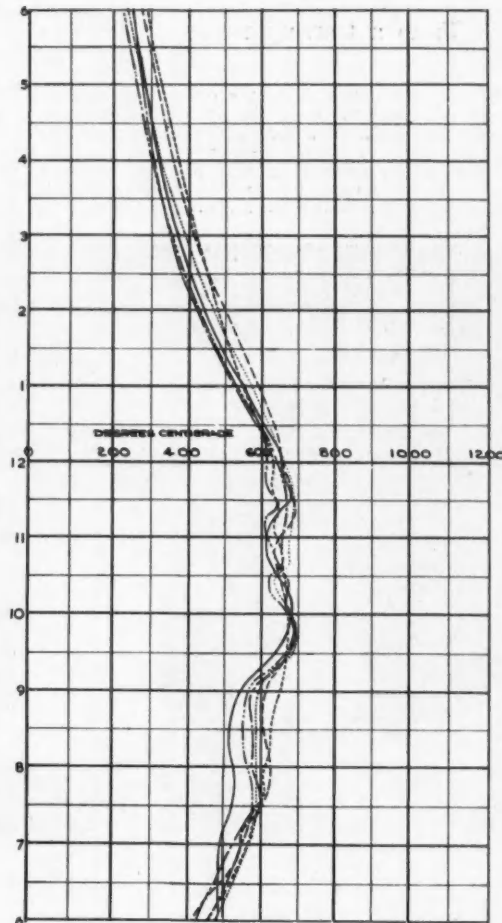
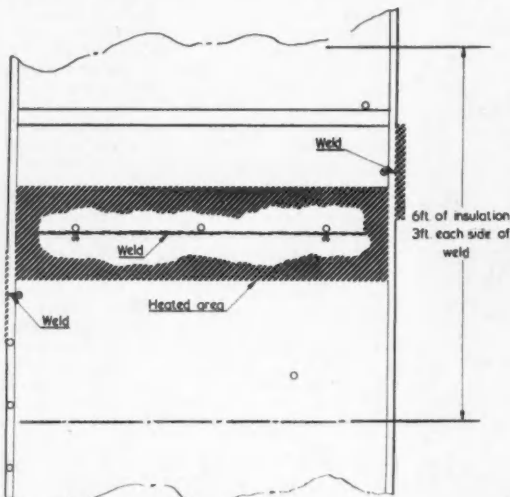


Fig. 4

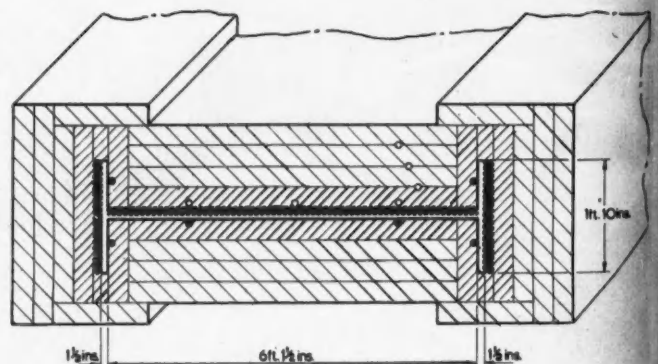
treatment should be increased or decreased (i.e., the voltage or amperage adjusted to cause this to happen later). This was achieved by carefully studying the general trend of the curves, and from this infor-



MARKING-OUT PLAN

for stress relieving of girders with

Electrothermal "Flexible Furnace"



PICTORIAL SECTION

- Primary insulation (high temperature)
- Secondary insulation (medium temperature)
- Flexible furnace

- Thermocouples connected to time/temperature recorder
- Thermocouples connected to pyrometer via multi-position switch box

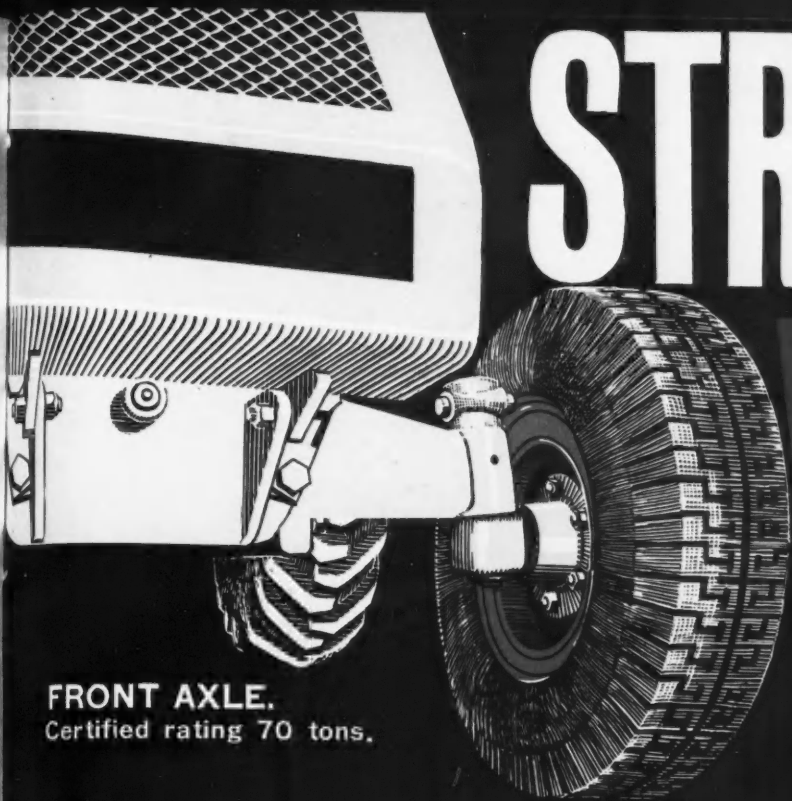
NOTE:—The flexible furnace & thermocouples are out of scale in order to clarify their positions

Fig. 3

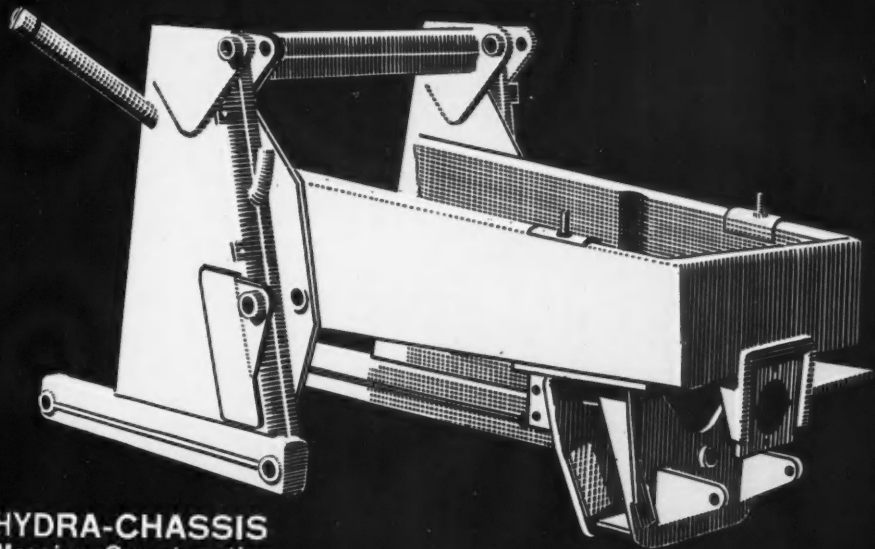
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STRENGTH

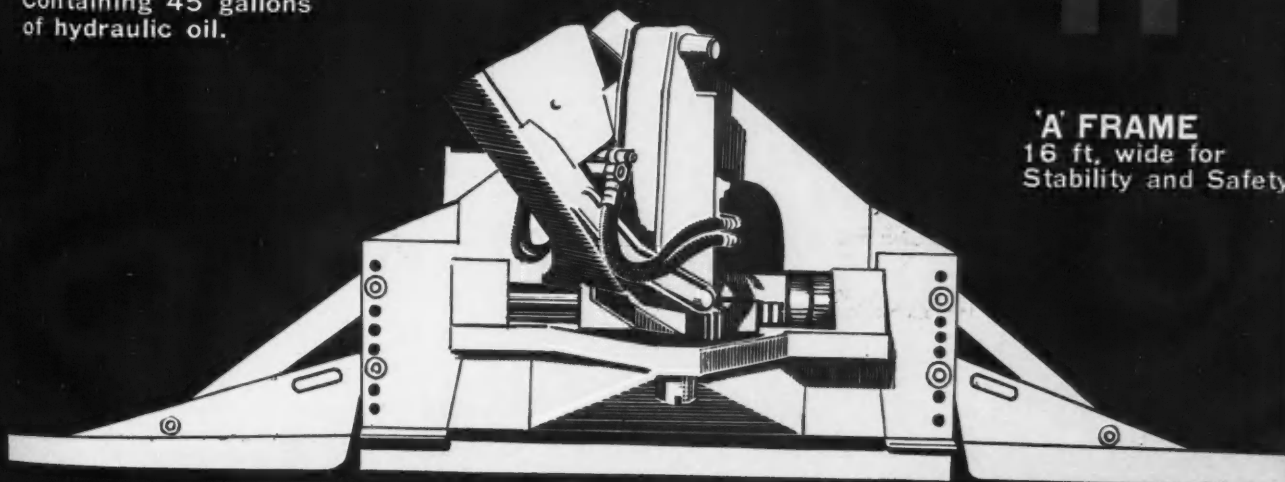
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REBUILDING OUR CITIES

R.I.B.A. Calls for Planning Minister

THE appointment of a Minister responsible for planning and co-ordination of development is called for by the R.I.B.A. in a statement summarizing the conclusions reached at the recent British Architects' Conference on city reconstruction.

The statement says the conference was concerned with how to achieve in old towns a congenial urban environment for all (for work and pleasure, living and shopping), in a time of intense building activity; and in particular how to reconcile pedestrian safety and enjoyment with the free flow of motor traffic. The conference was convinced that the legal, administrative and financial framework within which local authorities and private developers who employ architects have to work is jeopardising the chances of solving these problems properly.

While the profession could do with more skilled architect planners and better town planning training, the main need, in a critical situation, is for imaginative leadership and drive from the government. This has yet to materialise.

Meanwhile, much rebuilding is already taking place, and at an increasing rate, in the centres of those prosperous towns and cities that attract the private developer. Such development, however, has so far been piecemeal, whereas comprehensive planned development is essential if local authorities are to provide the new roads, subways, pedestrian areas, upper level pavements, parks, playgrounds and all those features that add character and convenience to a city as a place to live in as well as to work.

In contrast to these prosperous central areas are those "inner ring" districts, as outmoded and ugly as they are inefficient and unprofitable, which must be rebuilt before long but which are allowed instead to decay because public authorities lack the money, and private developers the incentive, to renew them.

To meet this situation, the R.I.B.A. makes three proposals, the statement continues:

(i) A Minister responsible for planning and co-ordination of development should be appointed. There are various ways in which existing government machinery could be adjusted to achieve this.

Town and country planning, for which there was a separate Ministry during and immediately after the war, has been relegated to a department within the Ministry of Housing and Local Government, which does not even carry the word "planning" in its title. The Minister is preoccupied with many other questions ranging from housing and rent control to local government and Welsh Affairs, yet the size of the planning problem at national, regional and local level is such as to require full-time attention.

The new Minister (or other organisation which the Government consider would meet the urgency of the situation) would take over the planning functions of the Ministry of Housing and Local Government, the distribution of industry (now controlled by the Board of Trade) and the integration of traffic planning with town and country planning on a national and regional basis. Such problems as urban congestion, green belts, the supply of building land and the continued drift of population to south-east England cannot be solved by the Ministry of Transport or the Ministry of Housing and Local Government working in isolation.

Expert Committee

(ii) An expert committee should be appointed, charged with studying issues such as these:

- The likely pattern, in a changing society, of present towns and cities as they could and should develop in the future, with particular regard to the future impact of motor traffic.
- The financial problems of comprehensive redevelopment, whether by private or public enterprise, e.g., problems of site acquisition, compensation and betterment, "unremunerative" areas and amenities.
- The procedural difficulties of local authorities in attempting to encourage comprehensive development, whether by private or public enterprise, e.g., the statutory time limit for planning consents regardless of the scale and character of the development, the limitations of C.D.A. procedure, the piecemeal nature of slum-clearance.

(d) The co-ordination of present methods of allocating finance under unrelated headings such as road improvements, slum clearance, housing, public utilities, parks and open spaces.

(e) The best use of limited resources in technical personnel and how to co-ordinate their activities in county, district or government planning.

(f) Green Belts; and the future demand for land for building and the supply available to meet it.

Research Needed

(iii) An urban renewal research and experimental unit should be established at once to obtain and study the data necessary for town and city reconstruction. This might also service the expert committee above, but it should be free of routine advisory responsibilities, and must be adequately staffed with a wide range of skills. The following are typical of many questions for study, in addition to the financial and procedural problems referred to above:

- The present and projected movement of traffic, including pedestrians and the space they require, within urban areas.
- The traffic generated by buildings of different kinds and uses.
- Alternative methods of car parking in central and residential areas.
- New trends in shopping, e.g., the increase in supermarkets.
- Re-examination of plot ratios, daylighting standards and other planning techniques.
- Introduction of more residential accommodation into central areas and, conversely, of light industry and commerce into housing areas.

This unit, whether established departmentally, interdepartmentally or even on a consultative basis, should be encouraged, as part of its research, to initiate and carry through, in conjunction with selected local authorities, pilot schemes on an experimental basis.

The "urban renewal research unit" established by the Ministry of Housing and Local Government is in no sense adequate to this task, concludes the statement.

(Concluded from previous page)

for some time, heat rising from the lower portion of the vertical flanges increased the rate of heating of the upper portion. For this reason it was essential to be able to control the heating of these upper surfaces by putting the appropriate mats out of circuit until the temperature was uniform throughout the entire flange, as shown by the thermocouple readings. This was done by splitting the busbars for the flange heaters into halves connected by an earth clamp, as mentioned earlier. Thus when it was required to slow down heating of the upper portion it was only necessary to loosen the earth clamp, remove the upper half of the busbar, and then refasten the clamp to the remaining half.

The accurate control of temperature achieved at all stages was undoubtedly influenced considerably by the careful attention paid to the lagging operations. Heat losses were minimised, thereby conserving energy input and, more important, temperature gradients through the girders were comparatively small. In view of the size of the girders, the mass involved and the considerable surface area, problems could readily have arisen if the lagging had been skimmed or done carelessly, and a good deal of success of the heat treatment of

these girders was definitely attributable to the amount of time and forward planning given to the question of thermal insulation.

Typical Treatment Cycle

Fig. 4 is a reproduction of an actual temperature recording made during a heat treatment cycle. It will be seen that at the commencement of the cycle the rate of temperature increase was slower than that called for by the specification; in other words, whereas the specification allowed an increase of 150 degrees C per hour, the chart shows that the actual rate of heating was rather slower. This was done deliberately since, on switching on, a number of things happen before the heat is being actually transferred to the girders in a manner which will give a good heat treatment throughout the cycle. The slowness of heat input resulting from passing only a very small amperage through the mats provided a fair amount of time for the thermal inertia of the flexible furnace, the lagging and girder to be overcome, and reduced to an absolute minimum the possibility of major temperature gradients from one face of the girder to another, or from one side of the flanges to the other.

After running the heaters (note the uniformity of the curves) up to about 200 degrees C, the rate of temperature rise

becomes rather more rapid, but still within specification limits. Up to 650 degrees C it will be seen that, by and large, all the curves are well within the specified 150 degrees C per hour. Naturally, the ideal would be for all six curves to coincide exactly. However, slight deviations will be observed, but none of these exceed ± 50 degrees C. The deviations do, in fact, indicate that individual control of the mats is possible. Where a mat was seen to be increasing the heat in one area too rapidly its temperature was reduced, or it was even knocked out of circuit, for a short time in order to restore uniformity of temperature over the entire weld area. Conversely, where a mat was not heating its particular area as quickly as required, the current was for a while increased slightly.

From previous remarks it will be evident that intelligent interpretation of the curves and anticipation of what was going to happen was a prerequisite in judging the next operation required, i.e., either increasing or decreasing the current to any particular mat: at the same time it was necessary to keep in mind the overall picture of what was happening in the entire area being heated. Patience had to be exercised, since hasty alterations could have thrown the complete heat treatment cycle out of balance.

WORK BEGINS ON No. 10 DOWNING STREET

WORK is about to start on the main scheme for the reconstruction of Nos. 10, 11 and 12 Downing Street, some work having already started in the Old Treasury buildings in Whitehall. It is expected to take about two years to complete the work.

As a first operation, the Downing Street houses will be stripped of their finishings and roof coverings so that the walls, floors and roofs can be closely examined and the nature and extent of the necessary work determined with an accuracy not possible before. Simultaneously Nos. 12 and, except for the Whitehall façade, the war-damaged Whitehall section of the Old Treasury building, will be demolished. Then the old walls of Nos. 10 and 11 will be underpinned while the work of rebuilding No. 12 goes on.

The reconstruction of the Downing Street houses is estimated to cost about £500,000 and a further £750,000 for the rebuilding of the Old Treasury.

The architect for the Downing Street scheme is Mr. Raymond Erith, F.R.I.B.A., and the rebuilding of the Old Treasury will be to the designs of the Chief Architect's Division of the Ministry of Works. Contractors for both schemes are John Mowlem and Co., Ltd., who will be able to call on the resources of their subsidiary, Rattee and Kett, who are specialists in this field.

AERIAL SURVEY FOR BRISTOL ROAD LINK

Bristol Corporation Planning Committee have approved a proposal to carry out an aerial survey, costing about £4,000, of the proposed route of The Parkway, to be designed as a fast traffic link between the Inner Circuit Road and the South Wales motorway.

In a report to the Committee, Mr. J. B. Bennett, the city engineer, stated that a shortage of technical staff in his department made such a survey desirable, and the results were needed urgently in order that the engineering economies of the project could be worked out.

SIZEWELL NUCLEAR STATION

Contract for G.E.C.-Simon-Carves?

ALTHOUGH no official confirmation is available at the time of going to press, *The Contract Journal* understands that a contract is to be placed shortly with the G.E.C.-Simon-Carves Group for the construction of the Sizewell (Suffolk) Nuclear Power Station. Associated with the Group are Motherwell Bridge & Engineering and John Mowlem.

Having a planned output of 650,000-kW, the project will be larger than any of the stations now being constructed by the Central Electricity Generating Board.

LAMBETH HOSPITAL ADDITIONS TO BEGIN

Work is expected to start in the near future on the first stage of a three-phase scheme for additions to Lambeth Hospital, for the South West Metropolitan Regional Hospital Board.

The first stage consists of a two-storey building to house a stores, kitchen and dining accommodation. Plans are still being prepared for the remaining stages, which will comprise an X-ray department, two operating theatres, radiography department and central sterile supply department, and a new ward block.

The Board's architect is Richard Mellor, F.R.I.B.A.; the consulting engineers are Alan Marshall and Partners, Federal House, Down Place, London, W.6; and the quantity surveyors are Rider Hunt and Partners, Bridge House, Queen Victoria Street, E.C.4. James Carmichael (Contractors), Ltd., Trinity Road, S.W.18, are the contractors for the first stage, their tender figure being £115,397.

HAVANT CIVIC CENTRE SITE

Havant and Waterloo (Hants) U.D.C. are to purchase a site near the Havant roundabout, at a cost of £100,000, for the proposed civic centre scheme.

Late Construction News

ELEPHANT AND CASTLE, STAGE II.—Tersons, Ltd., are to build stage II of the Elephant and Castle Redevelopment at a cost of £1,159,251. The project comprises three blocks of multi-storey offices with shops and banks at ground-floor level. One block will be 17 storeys high and the other eight storeys. Consultants for the scheme are: Erno Goldfinger, architect, 69 Piccadilly, London, W.1; Ove Arup and Partners, consulting engineers, 8 Fitzroy Street, London, W.1; and Davis Belfield and Everest, quantity surveyors, 9 Ashley Place, London, S.W.1.

POWER STATION CONTRACT.—The Mitchell Construction Co., Ltd., Peterborough, have been awarded a £200,000 contract by the Central Electricity Generating Board for the construction of turbo-alternator blocks and ancillary works at Thorpe Marsh Power Station.

B.M.C. SCOTTISH FACTORY.—The British Motor Corporation have announced the award of a £500,000 contract to Robert M. Douglas, Ltd., George Road, Birmingham, for the second stage of their new factory at Bathgate, West Lothian, Scotland. The factory is expected to be in production by next year. Harry W. Weedon and Partners, Birmingham, are the architects.

NEWCASTLE OFFICE BLOCK.—A five-storey office block is to be built at Low Friar Street, Newcastle upon Tyne, by R. W. Bell and Co. (Contractors), Ltd., Jesmond, Newcastle. Promoted by Green-coat Properties, Ltd., the scheme will cost about £200,000.

£600,000 PRIVATE HOUSING.—Private housing development at Highgate Park Estate, Fulwood, Preston, is to be undertaken by Rush and Tompkins, Ltd., Sidcup, Kent, at a cost of £600,000. The architects are Grenfell Baines and Hargreaves, 12 Guildhall Street, Preston.

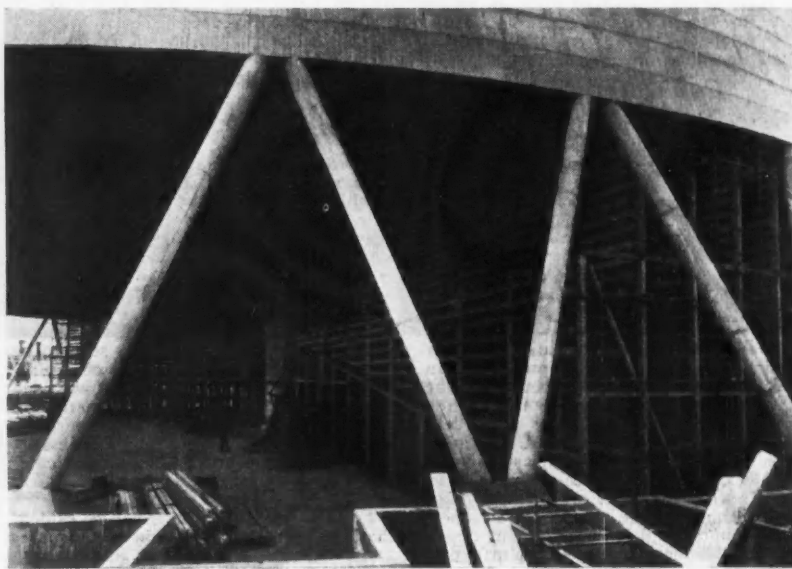
KIRKBY SHOPPING CENTRE.—Thirty-two two-storey shops are to be built as the second stage of the new shopping centre at Kirkby, near Liverpool, by Holland & Hannen and Cubitts (Great Britain), Ltd. The contract is worth about £250,000 and is due for completion within nine months. Kenneth Wakeford, Jerram and Harris, 7 Connaught Place, London, W.2, are the architects.

B.R. SERVICING DEPOT.—British Railways (Eastern Region) have placed a contract with George Wimpey and Co., Ltd. for extensive civil engineering works at the new carriage servicing depot at East Ham, Essex. The contract covers the construction of inspection pits, laying precast concrete deck slabs, elevated walkways, services, etc., and construction of ducts, apron and roadway.

£536,000 AIRPORT BUILDINGS.—The £536,000 tender of Pauling and Co., Ltd., 26 Victoria Street, London, S.W.1, has been accepted by the Air Ministry for the erection of the south office block and restaurant at London Airport. The architect is Frederick Gibberd, C.B.E., 8 Percy Street, London, W.1, and the consulting engineers are Sir William Halcrow and Partners, Alliance House, Caxton Street, London, S.W.1.

ABERGAVENNY SCHOOL.—Monmouthshire C.C. have accepted the tender of Rush and Tompkins, Ltd., Sidcup, Kent, at £180,000, for building the first stage of the Abergavenny Multilateral School. Plans are by the county architect, Sydney Leyshon.

13-STOREY FLATS.—Three 13-storey blocks of flats, containing 210 dwellings, are to be built for Oldbury B.C. by George Wimpey and Co., Ltd., in "No Fines" construction. The contract is worth £450,000.



At the Central Electricity Generating Board's power station at High Marnham, Notts., the Mitchell Construction Company are building five cooling towers which, with an overall height of 350ft., will be among the largest in Europe. The photograph shows the internal construction of one of the towers with the diagonal columns that support the reinforced concrete shell in the foreground. The central feed can also be seen with the orifices to accommodate the distribution pipes circulating the feed water radially across the tower. These distribution pipes will discharge along their lengths into sprinklers which convert the water into fine spray. The water then tumbles through louvers to the pond floor. The louvers are supported on a precast concrete structure which in the case of the tower in the photograph are approximately 50 per cent. complete

INCREASING EFFORT IN HYDRAULICS RESEARCH

D.S.I.R. Station's Work

IN order to accommodate an expanding programme of research in both the applied and basic fields the Hydraulics Research Station at Wallingford, Berks., is being enlarged. This news is given in the annual report* of the Hydraulics Research Board now published.

The extensions to the Station include enlarging the main hall, which will be completed later this year. A new feature of this hall will be a wave basin 270ft. in length, part of which will be devoted to background research on coastal erosion, and the remainder to investigations of wave disturbance in harbours and allied problems.

The report of the Director, Mr. F. H. Allen, M.A., M.A.I., M.I.C.E., describes the basic researches carried out and the advances made in research techniques. It also contains details of practical investigations into hydraulic problems in many parts of the world.

Measuring Littoral Drift

A particularly interesting technique being developed at the Station is a method for measuring, by means of fluorescent tracers, the rate at which pebbles or sand drift along a coastline (littoral drift). A knowledge of this rate of drift is of importance to the coastal engineer, but hitherto no generally satisfactory methods have been available for determining it. The technique employs a tracer material (Rhodamine B), which glows under ultra violet light, incorporated in artificial pebbles or sand grains.

By measuring periodically the spread of the tracer material along a beach the rate of drift can be calculated. With a pebble beach, the tracer pebbles are counted at night under ultra violet light. With a sand beach, samples are taken and the concen-

tration of tracer particles determined. The calculated drift will be compared at the end of a year with the actual drift at Rye, since here shingle drifts towards the western breakwater of the River Rother and piles against it; the actual quantity of drift can be measured by finding the rate at which shingle would have to be removed from the breakwater to maintain a constant beach line. The results obtained so far are promising.

Similar experiments are being made on shingle beaches at Deal and Dungeness, and preliminary experiments have begun on a sand beach at Dawlish Warren in Devon.

Reservoir for Liverpool

Alternative designs for the proposed reservoir at Tryweryn, North Wales—which will provide additional water supplies for Liverpool—were studied by model investigations. Three forms of bellmouth were tested and a modified design has been recommended. Modifications to other design features have been suggested which should improve the performance of the stilling basin.

Queen Elizabeth II Dock

The Queen Elizabeth II dock, which is an oil dock, is situated on the south side of the Mersey estuary to which it is connected by a lock capable of accommodating vessels of up to 650ft. in length. Between 3,000 and 8,000 cu. yd. of silt are dredged from the dock each week and there are difficulties in using dredgers in an oil dock.

The Station made a short field investigation and a model investigation. The work has shown that the silt enters the dock from the estuary and that inward flowing currents at the bed are responsible for its movement. These currents result from the differences in density between the saline water in the estuary and the comparatively fresh water in the dock. Possible ways of reducing the amount of silt carried into the dock are being considered.

A model investigation has been made of a four-mile length of the River Trent at

Burton-on-Trent, an area seriously affected by flooding. In recent years accumulating mud in the slower flowing channels has made some of the riverside areas—once a valuable amenity—far from pleasant.

The river levels are at present controlled by a series of weirs and model studies have shown that the flood levels can be improved by the removal of a derelict weir at Drakelow, the closing of certain channels and the re-aligning of others. These will all increase the velocities of flow through Burton so that less silt is deposited.

Newark By-pass

The proposed Newark By-pass involves re-routing the Nottinghamshire section of the Great North Road and constructing a new viaduct across the River Trent in an area subject to flooding. Information was needed for design purposes about the number of flood openings which should be included in the viaduct.

Originally nine 40ft. flood openings were proposed, but model investigations have shown that six could be eliminated without causing an appreciable increase in flood levels. It has been estimated that the elimination of these arches would save about £170,000 on the cost of construction. The model was also used to obtain information on the probable effects of a proposed Newark flood prevention scheme.

Portsmouth Harbour

A model investigation of Portsmouth Harbour was completed during the year. It showed that although current velocities in certain navigational channels would, in general, be reduced by up to 25 per cent. if proposed land reclamations were carried out, there was little risk of increased silting in these channels.

Hong Kong Harbour

Hong Kong Harbour lies between Hong Kong Island and the mainland and is open to the sea at each end.

Extensive land reclamation has taken place, and further reclamations are planned. These may cause faster currents in the approaches and increase navigation problems. The Station is investigating the effects of such schemes with the aid of a tidal model.

Experiments have been carried out to ascertain the localised effects of individual reclamations and the more fundamental changes which may have occurred as a result of reclamation schemes completed between 1903 and 1957. Investigations are in hand of the changes which may result from the extensive further reclamations that have been proposed.

CARLISLE CIVIC CENTRE

Selected List of Contractors

The following firms have been selected by Carlisle City Council to tender for the first stage of the new civic centre scheme: Farrans, Ltd., Edinburgh; Gerrard and Sons, Ltd., Swinton, Manchester; John Laing and Son, Ltd., Carlisle; Sir Lindsay Parkinson and Co., Ltd., London; and W. Townson and Son, Ltd., Bolton.

The architects are C. B. Pearson and Son, 24 Loxford Street, All Saints, Manchester, and the quantity surveyors, Lay and Partners, 396 Wilmslow Road, Withington, Manchester, 20. The total cost of the work will be about £600,000.

CONSULTANT FOR LEICESTER CIVIC CENTRE

Leicester City Council have appointed Mr. P. H. G. Chamberlin, A.R.I.B.A., a partner in the London firm of architects, Chamberlin, Powell and Bon, as consultant architect for the proposed civic centre, the cost of which is estimated at £1.6m.

Mr. Chamberlin, who will be responsible for the design of the buildings, will collaborate with the City Architect.



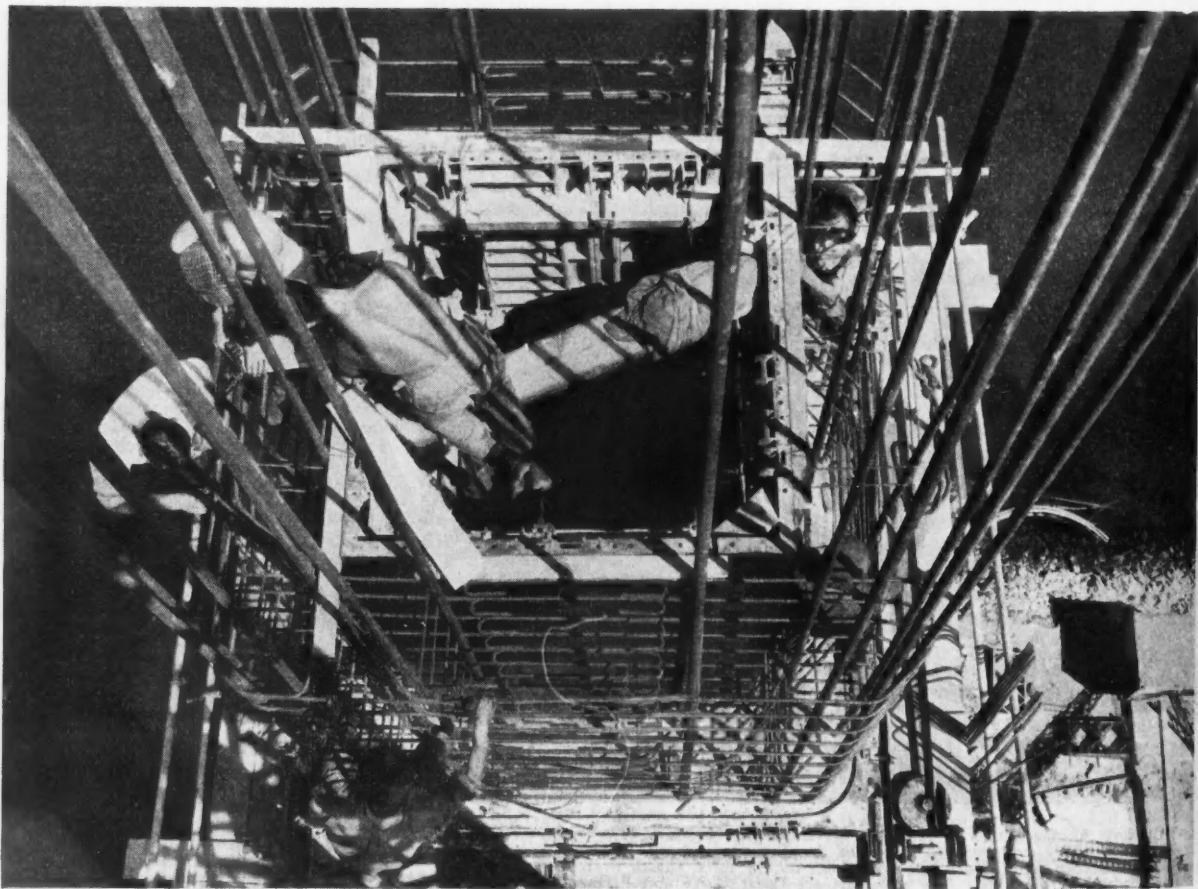
A picture of the proposed Archway Development, Highgate (The Contract Journal, August 4, 1960) superimposed upon an aerial photograph of the site. The scheme, which will cost about £4m., will be carried out in three phases over several years for The Rodwell Group, Ltd. The architects are Oscar Garry and Partners, 66 Gloucester Place, London, W.1



Main towers, Plymouth

TAMAR SUSPENSION BRIDGE

Construction of Main Towers



Overhead close-up view of internal forms

DURING the past year work has been in progress on the £1.3m. suspension bridge linking Devon and Cornwall across the River Tamar, near Plymouth.

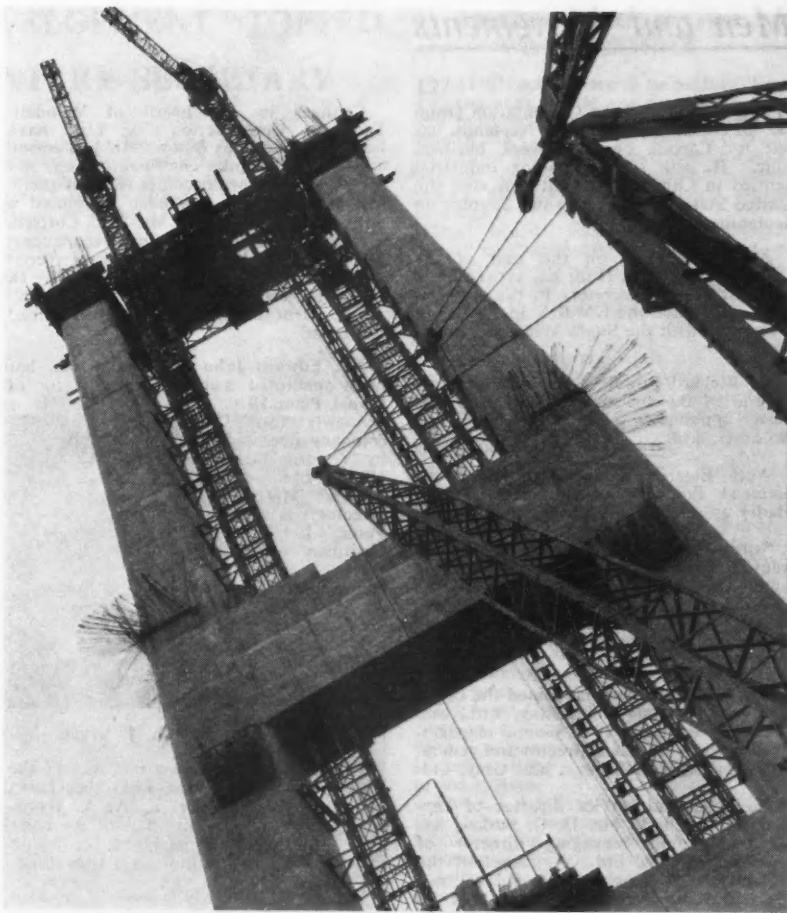
The bridge will have a central span of 1,100ft. and side spans of 374ft. It will be of steel and concrete construction, and will carry three carriageways and two footpaths on its 33ft. width.

All the towers are of reinforced concrete. The main towers comprise hollow squares 2ft. thick with rounded external corners, tapering from base to top, and 240ft. high, the square being 14ft. at the base and 9ft. at the top.

The formwork is based on 10ft. lifts, two sets of forms being used, in leap-frog fashion, at each square of the tower; the forms include a high proportion of standard panels, but are reduced 5in. in width at each setting because of the taper.

Generally the panels span horizontally between vertical aligners which are in turn supported by the walings at four levels. Ties through the walls provide intermediate support to the walings which are jacked against each other where they cross over the external corners. One rounded corner panel remains fixed on each external side unit while the reduction in width is effected by removing or exchanging panels at the other edge.

The bridge has been designed for the Tamar Road Bridge Joint Committee by Mott, Hay and Anderson, London, S.W.1, the main contractors being the Cleveland Bridge and Engineering Co., Ltd., Darlington. In association with the main contractors, Kwikform, Ltd., Birmingham and London, were responsible for the design and supply of the formwork required for the construction of the main towers.



Main towers, Plymouth, with formwork at 22nd lift—approximately 220ft. high



Distant view of Plymouth main and side towers

Men and Movements

THE chairman of the Cementation group of companies, **Mr. A. R. Neelands**, has left for Canada on a six-week business tour. He will call at leading industrial centres in Canada, and will also visit the United States, returning to this country on September 14.

After 13½ years on the staff of the L.M.B.A., **Mr. R. J. Hunt** has retired from the post of area secretary in the Association. He joined the L.M.B.A. in 1947 after four years with the South Western Federation.

Sir Richard Powell, Bt., M.C., director-general of the Institute of Directors, has been appointed a director of Bovis Holdings, Ltd.

Wolf Electric Tools, Ltd., have announced the appointment of **Mr. Hans Mäder** as sales supervisor for Switzerland.

Nordberg Manufacturing Company, Milwaukee, Wisconsin, have announced the appointments of **Mr. Henry H. Talboys** as consulting vice-president, railway equipment division, and **Mr. W. B. Blix** to the position of vice-president in charge of the division.

Mr. T. J. McArthur has joined the board of Blake Vitreous Enamelling, Ltd., and will act in the capacity of general manager. Until recently he was a director and general works manager of Stewart and Gray, Ltd.

The sales and service director of Leyland Motors, Ltd., **Mr. D. G. Stokes**, has been appointed managing director of Scammell Lorries, Ltd., a member of the Leyland group. The appointment will not affect the other responsibilities held by Mr. Stokes. He succeeds **Mr. W. E. Pearson**, who is retiring at the end of this month.

L. G. Mouchel and Partners, the London firm of consulting engineers, have announced the retirement of two partners, **Mr. T. H. Bryce** and **Mr. B. A. E. Hiley**, who have been with the firm for very many years. Both Mr. Bryce and Mr. Hiley have agreed to remain as consultants to the firm. **Mr. Leslie Dobson** has joined the partnership as Newcastle partner and will be in charge of the Newcastle office.

Changes in the board of Woodall-Duckham Construction Co., Ltd., have been announced, as follow: **Mr. J. Simpson** is designated deputy chairman (group) and **Mr. E. N. Wenborn** becomes vice-chairman. **Mr. C. D. Muntz** has been appointed a joint managing director; **Mr. A. F. Cottrell**, director-in-charge, operating department; **Mr. H. E. Dyble**, director-in-charge, construction department; and **Mr. R. O. Richards**, director-in-charge, design and development department, have all joined the board.

Mr. Edward John Steel, A.M.S.E., has been appointed manager and director of Planet Plant Hire,

a newly formed company operated by Victoria Plant Hire, Ltd., of Bristol. His co-director is **Mr. Peter J. Wise**, chairman of the Wise group of companies. For the past 14 years Mr. Steel has been plant manager with William Cowlin and Son, Ltd. Previously he held a similar post with Humphreys, Ltd.



E. J. STEEL

The new general export manager of the United Steel Companies, Ltd., succeeding **Mr. E. B. Rees**, is **Mr. H. A. A. While**, manager of the London office of the company. Mr. Rees has resigned for health reasons but will continue as a consultant.

Mr. S. H. Oliver has been appointed manager of the purchasing department of Castrol, Ltd., in succession to the late **Mr. A. J. Stafford**.

Mr. Thomas Ingledow, D.Sc., president of International Power and Engineering Consultants, Ltd., Vancouver, has been appointed a director of Balfour Beatty (Overseas), Ltd. International Power and Engineering Consultants, Ltd., in which Balfour Beatty have a 50 per cent. interest, are consultants to the Peace River Power Development Co., Ltd., and to B.C. Electric Co., Vancouver.

Five new appointments have recently been made by Atlas Copco (Great Britain), Ltd. **Mr. A. Hayes** is now the company's chief sales engineer for mining products in Great Britain. In 1956 Mr. Hayes resigned his directorship of J. S. Rollin and Co. to take up full-time representation of Atlas Copco in Scotland. The newly appointed manager of the company's mining division is **Mr. W. T. Jones**, manager of Northern United Colliery, Gloucestershire, for the past three and a half years. **Mr. R. Marshall** who, until recently, was a technical representative in Scotland for Eimco Loaders, is now occupying a similar position with Atlas Copco, his field of operations, however, embracing the whole of Great Britain. **Mr. Ralph Norén** has been appointed manager for stationary compressor sales. He was formerly a senior sales engineer in the stationary compressor department in the parent firm in Stockholm. **Mr. T. M. Horn** who was, until his retirement at the end of 1959, manager of the Leeds branch, is maintaining his contact with the company in an advisory capacity.

Mr. G. E. Smith, director of production for the Perkins Group, has accepted an appointment as assistant managing director of the Hamworthy Engineering Co., Ltd., and relinquishes his appointment with Perkins on September 12. He will be succeeded by **Mr. T. H. R. Perkins**, managing director of Perkins Engines, Ltd. **Mr. J. M. Collins**, export sales manager of Perkins Engines, Ltd., will become acting director of marketing for the Perkins group, and Mr. Perkins will temporarily relinquish his responsibility for all marketing activities within the group. Perkins Engines, Ltd., has set up a parts merchandising branch within its service department. Manager of the new branch is **Mr. G. H. Yarnold**, formerly export service manager, who joined Perkins in 1946.

Mr. H. B. McAuslan, A.M.I.Mech.E., M.I.Mar.E., A.M.I.N.A., has been appointed assistant general sales manager of W. H. Dorman and Co., Ltd. He will be directly responsible for administering the whole of the sales office, and will deputise for the sales director when the latter is absent from the factory. Mr. McAuslan previously occupied the position of Far East sales representative, and he recently spent six months in Canada reorganising the associated Canadian company, Dorman Diesels Canada, Ltd., Toronto.

Mr. C. D. Buchanan, A.R.I.B.A., A.M.I.C.E., A.M.T.P.I., has joined the Ministry of Transport to work with the long-term planning group. It was Mr. Buchanan who conducted the inquiry into the Monico site development at Piccadilly.

Sutcliffe Engineering Industries, Ltd., have announced the appointment of **Mr. H. Streets** to the board of Sutcliffe Plant Hire, Ltd.

Sir Joseph Latham, who is retiring at the end of this month from the deputy chairmanship of the National Coal Board, has been appointed to the board of George Wimpey and Co., Ltd. **Mr. E. G. Loudoun** has retired from the board of the company.

The following appointments have been made in the sales organisation of The Brightside Foundry and Engineering Co., Ltd.: **Mr. G. E. Robinson** becomes general sales manager; **Mr. G. H. Lewis**, sales manager, foundry division, and **Mr. T. Hessey**, technical sales manager.

Mr. G. A. Black, export director of Martin, Black and Co. (Wire Ropes), Ltd., is making a three-month round-the-world export tour which began last week when he left Scotland by air for Calcutta. Places he will visit include: Malaya, Singapore, Hong Kong, the Philippines, the U.S.A., and Canada. **Mr. Black** returns to this country on October 30.



A party of more than 100 members of the Yorkshire and Lincolnshire branch of the Institution of Highway Engineers recently visited the Thorncliffe Works of Newton Chambers and Co., Ltd., where they were received by **Mr. P. J. C. Bovill**, managing director of the company. The photograph shows some of the party touring the excavator division.

18-STOREY LONDON DEVELOPMENT "TOPPED OUT" BY PARLIAMENTARY SECRETARY

KEMP HOUSE, an 18-storey block in Berwick Street, London, W.1, was "topped out" at a recent ceremony conducted by the Parliamentary Secretary to the Ministry of Housing and Local Government, Sir Keith Joseph. The ceremony marked the beginning of the final stage of construction of what is the first mixed development of its kind in the central London area.

Main feature of Kemp House is a slender 15-storey tower, 170ft. high, which rises from a three-storey slab block covering the whole site of 24,000 sq. ft. The third to 17th floors contain 57 flats, with from one to four rooms, and the flat roof over the third floor is to be designed as an amenity open space for use by tenants. Oil-fired boilers will provide central heating and hot water throughout the building.

The three-storey slab block will contain 13 shops and a public house at ground-floor level and 20,000ft. of office space on the first and second floors. Offices will be heated by Copperad Sill-Line heaters.

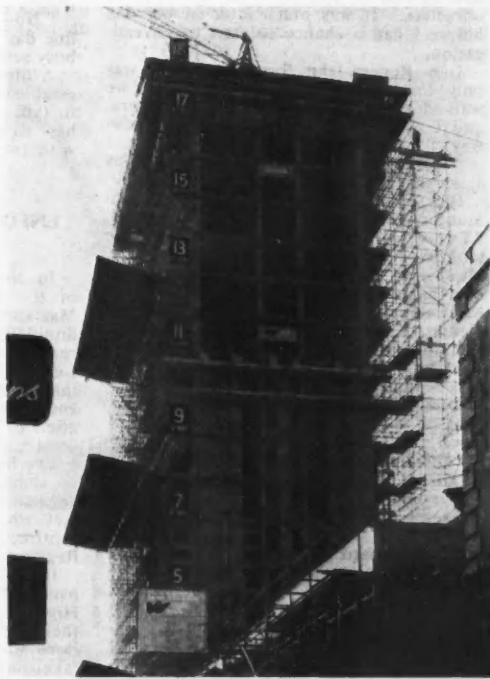
The frame is of reinforced concrete with hollow block and reinforced concrete floors, flat roofs and canopies. Reinforced concrete column bases form the foundations. The external cladding will consist of panels of facing bricks and, on the upper part, galvanised metal sills will be used. The wall cladding will be lined on the inside with 4in. Thermalite partition blocks with internal window boards, generally of hardwood.

The edges of the second and third floors and of the floors to the tower block will be faced mosaic externally. Mosaic will also be used on the external faces of the concrete parapet walls to the tower and on the canopy to the first floor.

Parapet walls to the flat roof over the first and second floors on the Berwick Street frontage will be finished with cast

stone slab. The main roof covering will consist of cork bedded in bitumen covered with building paper and a 2in. cement screed laid to falls and finished with two layers of built-up roof felting.

Floor finishes will be Thermoplastic tiles in the offices and flats and there will be granolithic floors in other areas. Ceiling and wall finishes will be plaster finished



The tower block of Kemp House

with paint or distemper. The stairs and open walls will have wrought-iron balustrades and the office stairs will be finished with plastic Marleyrail.

Kemp House, which will cost about £350,000, is designed by Riches and Blythin, F.R.I.B.A., for the Westminster City Council. The building contractors are Wates, Ltd.

BRITISH SCHOOLS FOR WEST GERMANY

BRITISH schools are to be built in West Germany. This was decided at a recent meeting of the board of chief architects of the C.L.A.S.P. consortium of local authorities and Government Departments, held in the United Kingdom Primary School exhibited at this year's Milan Triennale.

The board endorsed arrangements already negotiated between representatives of West Germany and the United Kingdom. These provide for the formation of a company in West Germany, who will take over from the C.L.A.S.P. consortium all the working drawings and information sheets on the system. The C.L.A.S.P. consortium will also advise the West Germany company on the use of the system, and reciprocal arrangements have been made for the exchange of information about all future developments, whether they originate in the United Kingdom or in West Germany.

In return for making available "know-how" on the use of the system, the consortium will be paid a percentage of the gross income of the West German company—to the benefit of both the rate-payer and the tax payer. This will be received through the British Ministry of Education, who are to ratify the agreement in an exchange of letters with the West German Government. The agreement will be for an initial period of 15 years.

The West German company will work in close association with the British firm of John Brockhouse and Co., Ltd., the manufacturers of the steel frame which is basic to the system.

The C.L.A.S.P. system was chosen for the United Kingdom Primary School exhibited at this year's Milan Triennale as an outstanding example of the new systems of construction developed in Britain under the post-war school building programmes. It produces buildings of high quality, capable of being erected very quickly with a small site labour force and at a low cost.

Following the opening of the Milan Triennale on July 16, inquiries have been received about the possible use of the system in countries other than West Germany: these are now being followed up.

VIVA SHIELD PRESENTATION

At the Election Court Dinner of the Worshipful Company of Carmen, held at Trinity House recently, the Master, Colonel J. F. E. Pye, presented to Mr. J. M. Laing, managing director of John Laing and Son, Ltd., the "Viva Shield" together with Gold Medal and Illuminated Citation, awarded annually by the Company for the outstanding transport improvement of the previous year.

This 1959 award was in recognition of the company's achievement in constructing 55 miles of the M.1 in 19 months.

WORK STUDY PROPOSAL

Northamptonshire C.C. have been recommended to engage the firm of Personnel Administration, Ltd., to introduce a time study of direct labour work in two highway divisions. It is also proposed to introduce a system of bonusing to roadmen in these two divisions.

Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. G. T. Carpenter, deputy county engineer and surveyor of West Riding until his retirement in February this year. He was 65.

Mr. Gerald Rupert Clayton, aged 64, county architect of Durham since 1947.

BUILDING EDUCATION IN SCOTLAND

From Our Correspondent

THE Scottish Joint Committee for National Certificates and Diplomas in Building, under the chairmanship of Councillor A. H. Brechin, O.B.E., a member of H. A. Brechin and Co., chartered surveyors, Edinburgh, has agreed to a common syllabus for building trade education in Scotland.

This is a big step forward, and one which has been sought for some 10 years—providing a uniform standard of training and ability for the whole country. It is based on three main subjects—building construction, building science and mathematics. Main emphasis will be on new methods of construction.

The course will be available in more than half of the education authority colleges in Scotland. It will extend over three years and will normally be available either by part-time day study or evening study.

The idea of a common syllabus was approved at a conference of teachers in Glasgow last March. Up till now the various centres have worked on their own pattern

of training. This led to a complaint that the courses lacked breadth and status in that the certificates were purely local rather than national, a complaint corrected in the new scheme.

A working committee was set up, headed by Dr. Sidwell, head of the Building Department at Heriot-Watt College, and the present accepted programme is the result of that committee's work.

PLANNING SYSTEM CHANGE

A Parliamentary Order has been made eliminating the necessity for Cumbernauld Development Corporation to obtain planning permission from Dunbartonshire C.C. for operations in the new town. Proposals will still have to be submitted to the Secretary of State for Scotland, who has undertaken to consider any views which the C.C. may submit on such proposals.

Talking of Safety

by

"DRAGEE"

WOODWORKING machinery has become such a familiar part of the equipment of the larger site that many agents may sometimes wonder how they ever managed without it. There are those of us, however, who view these useful tools with mixed feelings.

Such machines—and I am thinking mainly of circular saws—are cold-blooded mutilators: they await their turn, and at the first opportunity they attack swiftly and—usually—effectively. If any person is inclined to dismiss this as a mere flight of fancy—let him just think back to any accident he may have witnessed with one of these machines, or if he has been fortunate enough never to have known the sudden shock of such an encounter, let him merely ponder for a moment upon the following scene.

I had been visiting a medium-sized engineering job a few miles out of town. It was midsummer; the day was warm, and the sun shone benignly on the site where concreting operations were in progress. Most of the lads were stripped to the waist; they were bronzed and healthy, and some of them were whistling.

As I rounded the corner of a wall I heard the sound of wood being cut on a power-driven saw, and presently I came upon it—a portable circular saw of a conventional type, positioned inside an enclosure of scaffold tubes and corrugated iron sheets. The two ends were completely open.

It was just at this moment that it happened. There was a cry; the sound of the saw stopped abruptly, and the joiner was doubled over his hand. A trickle of blood oozed between the fingers of his other hand, and as he caught sight of me he looked at me in anguish.

"My fingers . . . they . . ." and at that moment he collapsed.

I was already administering first aid. A

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

tourniquet; quick, urgent assistance from one of the men to loosen the collar, another man to fetch an ambulance—we were too busy to think of the effect on ourselves just then. That came after. And it was very unpleasant.

As usual, an inquiry had to be made. The injured man was suffering from shock, and we had to find out what we could by ourselves. It was much later in the day before I had a chance to start an investigation.

Dan Rogers, the foreman joiner, was only too anxious to help. Together we walked back to the saw bench enclosure, and I asked him a few questions on the way.

"How long has Denis been employed as a sawyer?" I asked.

Dan scratched his head. "For about two months, I should think," he replied. "Denis started with us as a chippie but he took over the saw when Jack Howden left. Mind you, he only used it occasionally—like this morning. The rest of the time he was helping with the shuttering. He'd had plenty of experience with this kind of machine—I watched him for quite a while after he started."

We stepped into the hut and looked around. There was a wooden push-stick lying on the floor, and there were traces of blood on it. I picked it up.

"Did he always use this?" I asked.

Dan nodded. "He was always very particular about that—and the guards. You can see how he's kept them adjusted close to the blade."

The top guard and the riving knife were indeed both accurately positioned. I looked at the floor, it was reasonably clean, and quite free of offcuts of any size which might have upset his balance.

"I dunno," said Dan. "It's a mystery why a man as careful as Denis should do a thing like that. It wasn't as if it was an awkward job: just a simple matter of sawing off the end of a length of four by two." He looked at the saw bench. "He must have been bending forward like this. . ."

Dan demonstrated, then I took his place

at the bench. The place was airy and light and yet here I felt that something was wrong. I walked past the bench to the open end of the shelter. Since it was early afternoon, the sun was high in the sky, but at 10 o'clock, when the accident occurred, it would have been much lower. In fact I estimated that it would have been shining below the level of the roof, right against Denis as he worked at the saw. With a glare like that he could easily have made an error of judgment. I said so to Dan.

"Yes, I reckon he would have had the sun right in his eyes at that time," he agreed.

"Has he never complained about it before?"

"No—but then this is the first really fine day we've had since we started to get busy several weeks ago."

A little mystery had been solved—as we established when Denis was well enough to talk—but a bigger problem remained—how to make good use of a trained joiner with two-thirds of a left hand.

ENFORCEMENT OF COMPANY RETURNS

In the past it has been the practice of the Board of Trade to prosecute in Magistrates' Courts officers of companies, liquidators and receivers who failed to file returns, etc., states the *Board of Trade Journal*, but it was found in some cases that, although defaulters were prosecuted and fined several times for the same offence, the defaults were still not made good.

The Board of Trade has recently adopted in some cases a different procedure to enforce those provisions of the Companies Act which require defaulters to furnish returns, accounts, notices, etc., to the Registrar of Companies.

In suitable cases the Registrar of Companies now institutes proceedings in the High Court to compel defaulters to fulfil their statutory duties. The relevant sections under which these proceedings are taken are as follows:

Section 428

whereby the Court is empowered in a case where a company has made default in filing any return, account, etc., after having been served with a notice requiring it to make good the default, to make an order requiring the company and any officer thereof to make good the default within a specified time.

Section 337

makes provision for the Court to make a similar order in the case of a liquidator of a company who is in default.

Section 375

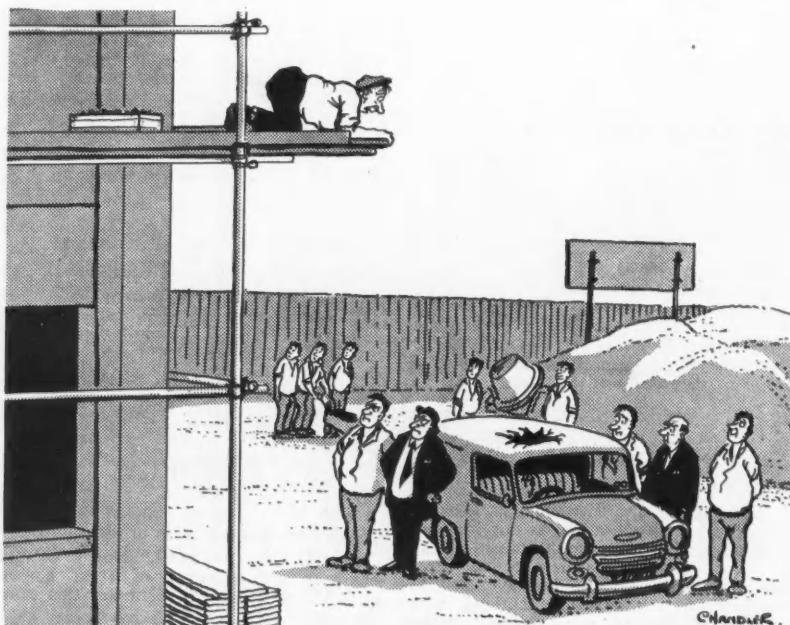
provides that the Court may make a similar order in the case of a receiver or manager appointed by Debenture holders.

The first four cases to come before a judge in the Chancery Division under the Provisions of Sections 428, 337 and 375 of the Companies Act were heard by Mr. Justice Buckley recently.

His Lordship gave leave to the Registrar of Companies to issue writs of attachment, with a view to committal, in three cases against the defaulters; in the fourth case he directed that a writ of sequestration be issued against the defaulting company and in addition gave leave for the issue of a writ of attachment against the defaulting director. In all four cases costs were awarded to the Registrar of Companies.

PORTSMOUTH AERIAL CHAIRWAY

Ministry of Transport and Admiralty planning permission will be sought for an aerial chairway proposed between Hayling Island and Portsmouth. The scheme has been approved by Hampshire C.C. Planning Committee.



"Er—anybody seen a spanner down there?"

International Construction**WORLD'S FIRST OFF-SHORE SULPHUR MINE STRUCTURE****By a Correspondent**

WHAT is claimed to be the world's first off-shore sulphur mine, consisting of an enormous steel island rising above the waters of the Gulf of Mexico, has recently been placed in commercial operation by the Freeport Sulphur Company of New York, U.S.A., and its construction incorporates many interesting features.

Located in 50ft. of water, seven miles from the Louisiana coastline, the island is said to be the largest permanent steel structure ever to be erected in the ocean. It is equipped with a complex of boilers, generators, drilling and other facilities for mining the sulphur from geological formations 2,000ft. beneath the bottom of the Gulf. The ultimate cost of this Grand Island project, including related facilities ashore, is estimated to be \$30m., of which \$25m. has already been spent. The steel island stretches for about half-a-mile across the water and, as mining progresses, the platform will be extended to form a Y almost a mile in total length.

Design work on the project was begun late in 1956, and the first structural contract was let in December, 1957. Off-shore erection began in June, 1958. The off-shore phase of erection, which involved barging from the shore prefabricated units as heavy as 650 tons and putting them in place in the exposed waters of the Gulf, required 59 working days, only one day being lost due to bad weather. Start-up operations began in mid-April, 1960, and some sulphur has already been produced and piped to the shore.

Unique Engineering Problems

Many unique engineering problems presented themselves to the planners of this venture and the 50ft. depth of water at the mine location, together with the extremes of weather experienced in the Gulf, compelled innovations in design and construction.

To provide foundations and supports for the plant and other installations, Freeport engineers decided upon a series of towers connected by bridge sections, the towers being composed of three elements—templates, piling and deck sections. The templates were lowered onto the floor of the Gulf to serve as guides for the pile driving and as underwater bracing for the piling. The piling was driven through the hollow legs of the templates 170ft. into the subsoil. On top of the piling were placed the tower deck sections, and, following this, 200ft. long bridge sections were fitted between the towers to form a continuous structure. The lower deck floor is 50ft.

above the water and well above the hurricane waves which are experienced in this region. The top deck elevation is 75ft., representing the approximate height of a six-storey building. Large individual plat-

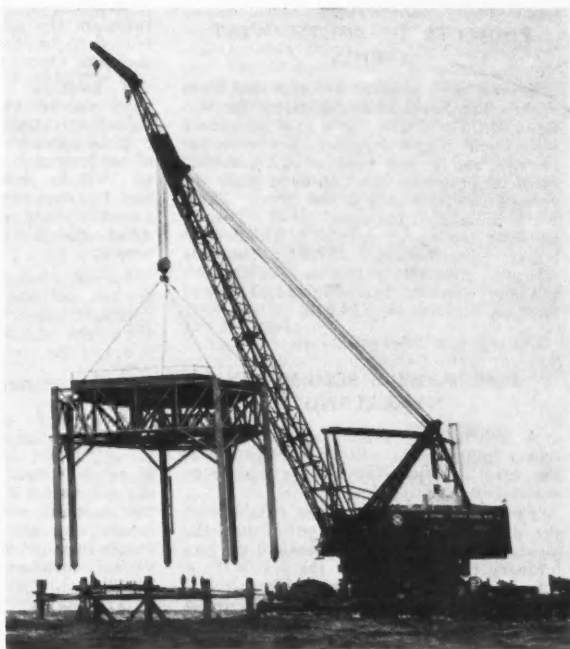
ported by the four-pile 50ft. by 50ft. towers or piers. The pipelines are carried on the bottom chord of the bridges. The 12ft. wide roadway on the top of the bridges is designed for a 7-ton moving load, permitting the use of rubber-tired equipment for the movement of personnel and materials. A heliport is located on a small platform near the living quarters.

In making the calculations for the mine structure special attention had to be paid to wind forces, wave forces, foundation conditions, subsidence and corrosion.

Line squalls can cause occasional short-lived winds of 50 m.p.h. to 90 m.p.h. over the area, but hurricane winds were considered the greatest hazard. Such 105 m.p.h. winds generating a breaking wave with crest at elevation plus 45ft. above Mean Gulf Level are likely to occur once every 20 or 30 years and these would represent a force of 1,375lb. per sq. ft. on the piling. Bearing these live forces and other known dead loads in mind all the structures were designed in accordance with the A.I.S.C. code, which allows maximum stress in the steel of 27,000lb. p.s.i. for combined live and dead loads.

Eight soil borings were made at the site, seven of these running to a depth of 250ft. below MGL and one to a depth of 200ft. These penetrated from 168ft. to 185ft. of soft to medium stiff clays below Gulf bottom beneath which there was 20ft. to 36ft. of very dense sand.

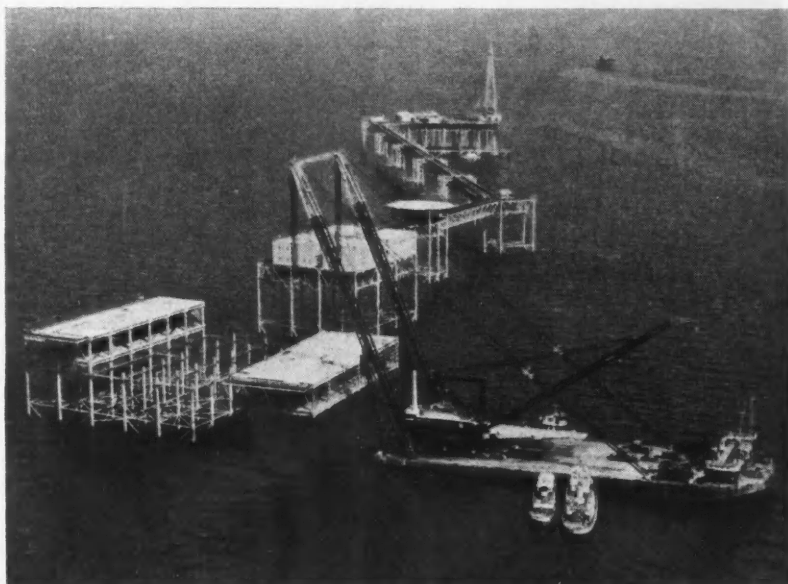
While this deeper sand stratum would have allowed the use of a minimum number of piles, other factors had to be considered in determining the number of piles used. These included the framing of the deck structure, underwater bracing and especially the bending stresses induced above and below the submerged bracing, the result of horizontal wind and wave forces. Pile size and penetration were determined in the laboratory from boring samples. Steel pipe piles of 30in. O.D. proved to be the most economical and required a minimum of bracing in the zone

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The first tower deck section being lifted onto the piling already in position. The 120-ton template, shown standing out of the water, was placed within three inches of the selected location

forms support the various plants and facilities which comprise this ocean station.

Some 200ft. in length, the bridge spans are 15ft. wide by 15ft. deep and are sup-



One of the heavy deck plates for the power plant being placed in position

International Construction

SOUTH AFRICAN TUNNEL CONTRACT FOR CEMENTATION

A TUNNEL, 4,300ft. long, is to be driven through the Twelve Apostles, part of South Africa's Table Mountain range, to carry water from the Hely Hutchinson and Woodhead reservoirs on Table Mountain to the Kloof Nek filtration plant.

The contract for the work, worth £190,000, has been awarded to The Cementation Company (Africa) (Pty.), Ltd., a subsidiary of the Cementation Group, London.

The tunnel will be 6ft. 6in. high with an arched roof, and 6ft. 6in. wide. Completion of the drive through is scheduled for early 1961. Access for vehicles to the tunnel works will be along a track which is now being built up the mountain side from Camps Bay.

SAFE TOLLROADS

Tollroads in the United States established new safety records during the first quarter of 1960. The fatality rate on 18 major tollroads dropped to an unprecedented average of 1.5 per 100,000,000 miles of travel during that period, reports the American Bridge, Tunnel and Turnpike Association.

This almost halves the low fatality rate of 2.8 per 100,000,000 miles of travel established by tollroads during all of 1959, and it is less than one-third of the 1959 rate for all other roads. (The national average for all other roads was 5.4 in 1959, 5.6 in 1958 and 5.9 in 1957.)

NYASALAND CLINKER FACTORY

The first clinker factory in Nyasaland was opened recently at the Nyasaland Portland Cement Company's quarry near Zomba. The factory is linked by its own railway to the main line between Salima and Blantyre, and the entire scheme cost more than £1.5m.

In the present financial year, the government is expected to use more than 25,000 tons of cement from the factory.

RISE IN POLISH BUILDING MACHINERY EXPORTS

THE Polish Foreign Trade Information Service reports a marked development in the country's export of building machinery. From a production of practically nil in 1950, Poland now has 40 factories which, it is stated, exported \$10m. worth of equipment in 1959.

The Polish export range includes concrete mixers, crushers, cranes, road-building, maintenance and repair machinery, road sweepers, rollers and excavators. Their most important customers are East Germany, Korea, Czechoslovakia, China, U.S.S.R., India, Iran, Spain, the United Arab Republic and Argentina.

PROJECTS IN SOUTH WEST AFRICA

Several new projects are reported from Walvis Bay, South West Africa, by Barclays Bank D.C.O. Plans for a new secondary school and a new hospital have been approved, and it has been announced that financial provision has also been made for various capital works in the town. These will include municipal staff houses, £47,000; tarring of streets, £30,000; electricity distribution, £19,000; housing schemes, £80,000; compound equipment, £46,000; coloured township, £45,000; and location extensions, £14,810.

£3M. POWER SCHEME IN NYASALAND

A scheme to produce hydro-electric power from the Shire River and to stabilise the level of the Nyasa Lake has been mooted in Nyasaland.

The Minister of Economic Affairs told the Federal Assembly recently that the Government was to vote £100,000 on preliminary preparations for the Nkula Falls scheme, which will cost about £3m. Nkula Falls are on the Shire River, 22 miles north-west of Blantyre. Work on the scheme is likely to start about March, 1961. It will take nearly three years to complete.

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exposed to storm wave forces. Most of the piles were driven to refusal in the sand stratum and actual driving tests substantiated the data prepared in the laboratory.

Surface subsidence is common at Frasch sulphur mines on the sulphur being removed and vertical settlement is accompanied by horizontal creep of shallow sediments toward the centre of the subsidence basin. At the Grand Isle Mine a vertical surface subsidence of 43ft. to 45ft. is expected at the centre of the ore-body, an elliptically shaped basin extending outwards a distance of 3,500ft. to 5,500ft. from the centre. The living quarters at the mine are expected to settle 5ft. and the heating plant about 3ft., while subsidence at the first two production platform locations is expected to be about 25ft. Structures on the slopes of the basin are expected to be displaced horizontally about the same amount as they settle.

To meet this contingency, the production platforms are of a temporary nature and will be salvaged and reconstructed at their original elevations after some 10ft. to 15ft. of settlement has occurred. The bridges, too, will be jacked up and levelled when this becomes necessary. The bridges are, however, long enough to permit 3ft. of differential horizontal movement between towers.

Special precautions have been taken to combat corrosion in the three different corrosion environments (the submerged zone, the splash zone and the salt air zone) of the structure.

Placing of Templates

About 80 per cent. of the area of the templates used in the construction of the Grand Isle Mine is below water. As well as providing a pattern spacer and guide for pile driving, the template also acts as an underwater bracing for the piles against the lateral forces imposed by winds and waves. The vertical members of the template consist of 34in. O.D. pipe and the cross bracings of 12in. pipe. The templates were positioned accurately by McDermott derrick barge and levelled by weighting the high side. When in place, the template legs extended about 10ft. above the level of the water. Temporarily, the template weight was supported on the mud bottom by timber mats at each corner. Templates were placed to within 3in. of the selected location.

Once the template was in position, a 30in. O.D. pipe pile was inserted through each 34in. leg and driven into the sub-soil to about 170ft. penetration or an elevation of minus 215ft. Following the driving of the piles, the template legs and piles were welded together and the annulus grouted. In this way, the weight of the structure was transferred to the piling and the template became the underwater bracing for the piling. After the piles had been cut off at a convenient predetermined elevation above the template legs they were ready to receive the deck section.

These prefabricated sections were installed, again by McDermott derrick barge, by stabbing or inserting the deck section legs into the open-ended piles, following which the legs were welded to the piles, thus joining the three constructional elements into a single unit.

The heaviest units lifted into place were two deck plates for the power plant. Each section weighed 650 tons, and measured 177ft. in length, 68ft. in width and 20ft. in height.

Rental on the heavy marine equipment was about \$20,000 a day.

The writer is indebted to the Freeport Sulphur Company and to a Paper presented by C. O. Lee, Z. W. Bartlett and R. H. Feierabend, of that company to the Delta Section, A.I.M.E. New Orleans, La., for material from which this article has been prepared.



Italy's first commercial nuclear power station is being built at Latina, some 40 miles south of Rome, by AGIP Nucleare and the Nuclear Power Plant Co., Ltd., for S.I.M.E.A. (Societa Italiana Meridionale per l'Energia Atomica). Work on this joint Italo-British venture started in November 1958 and the station will be completed in 1962. Similar to Bradwell in basic design, the station will employ one graphite-moderated, gas-cooled reactor.

International Construction**NEW TOLLROADS FOR FIVE AMERICAN STATES**

IN spite of the creation of the Interstate highway system four years ago by Congress, and contrary to both popular and professional opinion, tollroads still have a large part to play in the communications of the United States.

This is borne out not only by the healthy financial position in which the existing tollroads continue but by the recent announcement that five states are to construct new roads totalling some hundreds of miles in length, all on a toll-paying basis.

Kentucky Appoint Consultants

Consulting engineers have already been appointed by the Kentucky Highways Department for a proposed tollroad, 120 miles in length, in the western part of the state. This will act as an extension of the Kentucky Turnpike, from the southern end of which it will run between Elizabethtown and Princeton. The area of Kentucky Lake-Barkley Dam to which the road will give direct access from Louisville enjoys no such connection on the Interstate system, and the new road is expected to strengthen economic ties between Louisville and the western part of the state.

Tenders for the scheme will be obtained next April, and the road is expected to be opened to traffic in 1963, when a further extension to Paducah is envisaged.

Another scheme in Kentucky which has now received approval of the Court of Appeals, consists of a 43-mile long tollroad from Winchester to Campton, in the east of the state, which is also expected to be completed by 1963. Acquisition of rights-of-way is already being carried out by the State Highways Department.

The costs of the two roads are respectively estimated at \$70m. and \$30m., and the money will be raised by sale of revenue bonds.

Bond Issue for Florida Scheme

A feature of proposals to construct a 97-mile tollroad extension to the Sunshine State Parkway in Florida lies in the method

of financing the project. Dependent upon approval by the State Courts, a New York firm of underwriters has agreed to take a Florida Turnpike Authority bond issue amounting to between \$50m. and \$55m., and this, it is believed, has removed the last obstacle to proceeding with the scheme.

The road will link the northern end of the Sunshine State Parkway at Fort Pierce with Orlando, and will provide more than 200 miles of limited access tollroad between Miami and Orlando. Completion is hoped for during 1962.

Oklahoma Turnpike Authority hope to pay for new tollroads proposed in the south-western and eastern portions of the state by sale of revenue bonds, and if State Supreme Court approval is received, investment firms will issue, by the autumn, bonds totalling between \$70m. and \$80m.

The routes under consideration comprise, in the south-west, a tollroad from Oklahoma City via Chickasha to the Texas border near Wichita Falls. This would not compete with the Interstate system, and the State Highway Commission has allocated \$18m. in state and federal funds for construction of free road connections with the tollroad.

The eastern route will run generally parallel with the Interstate system, east of the I-35 between Dallas and Oklahoma City.

Tollroad on Interstate System

As a move to speed construction, a joint proposal has been made by the States of Delaware and Maryland to construct part of the Interstate Route 95, between Delaware Memorial Bridge, near Wilmington, and the Baltimore Tunnel, as a tollroad, to cost \$140m.

This proposal raised a number of legislative problems, as the two States want the route to remain in the Interstate system. Each State has carried out preliminary engineering and right-of-way purchase and construction, and each has been reimbursed for expenditure by the Bureau of Public Roads.

Reimbursement of the Federal Govern-

ment is proposed by Delaware and Maryland from the sale of revenue bonds, but the Bureau of Public Roads was not permitted to accept refunds for money already spent, under the 1960 Federal Aid Highway Act.

An amendment to this act has, therefore, been made by Congress, and the two States are now permitted to return funds contributed by the Federal Government.

RHODESIA TEST ON PRESTRESSED CONCRETE BEAM

The biggest prestressed concrete beam ever made in Rhodesia, measuring 51ft. 6in. long by 25in. deep and 17½in. broad, refused to break under a fierce test recently carried out.

The beam is similar to 170 others that will go into the new Beatrice Road fly-over bridge in Salisbury. More than 50 engineers representing Government departments, the municipality, the Rhodesia Railways and private firms saw the beam withstand a load of 40 tons applied at the centre.

The design load, which allows for 25 per cent. overstress, is 8.75 tons. At 22.95 tons, the specified failing load, only the minutest cracks had appeared. With 40 tons load, the beam was still intact and the pneumatic jack which gradually applied the pressure could not be relied on to increase it much more than this.

Wire used for prestressing was supplied by the U.K. firm Rylands Brothers, Ltd., and consisted of 15 tons of .276in. diameter, and 10 tons of .200in. diameter bright indented stress relieving wire of 100/110 tons per square inch, in 8ft. coils.

CONSTRUCTION COMPANY FORMED IN NIGERIA

A new company, formed in the Northern Region of Nigeria, is the Northern Construction Co., Ltd., which consists of the following partners: the Northern Region Development Corporation, Taylor Woodrow (Overseas), Ltd., and The United Africa Company of Nigeria, Ltd. The management will be provided by Taylor Woodrow.

Among the declared aims of the company are the encouragement of indigenous Northern contractors by sub-contracting operations and the institution of training schemes for the training of local technicians.

£900,000 ORDER FOR IRAN PIPELINE

A second contract for the supply of seamless steel tubes for the 516-mile oil pipeline from Tehran to Meshed, Iran, has been placed with Stewarts and Lloyds, Ltd.

The contract, worth £900,000, is for the 280-mile section from Shahrud to Meshed. Work on the first section, for which Stewarts and Lloyds supplied pipe to the value of £800,000, is now near completion.

The pipeline is being constructed for the National Iranian Oil Company by Willbros (Overseas), a subsidiary of Williams Bros. Company, Tulsa, Oklahoma, who placed the orders.

ORDER FOR HEAT EXCHANGERS

Head Wrightson Processes, Ltd., have received a large order for "Fin-Fan" air-cooled heat exchangers from the Iraq Petroleum Company. The units are to be used to cool lubricating oil from gas turbines at two pumping stations in Syria.

Five large coolers will be supplied to each station. The oil outlet temperature will be kept constant automatically with varying heat load and ambient conditions. The total installation is worth about £55,000.



A view of the new air terminal building which is about to be opened at the Uplands Airport, Ottawa, Canada

Trade Section

BRITISH STANDARDS

Form of Time and Wages Sheet and Pay Packet

SINCE 1949 millions of wages sheets and pay packets used in two major industries have conformed to a British Standard—B.S. 1151:1949. Now that standard—evolved by experts, and for use in the building and civil engineering contracting industries—has been revised.

One important modification is the grouping together of all taxable payments. In addition, numerous examples of wages payments are set out and explained in detail, to illustrate the versatility of the wages sheet in dealing with the most complicated circumstances.

The new publication (B.S. 1151:part 1: 1960) contains a specimen (26in. by 16½in.) time and wages sheet—from which it will be seen that the standard sheet provides for simple and accurate recording of time, payments, allowances and deductions.

Contractors who do not require to use all the columns of the wages sheet could well use the standard sheet as a model from which to devise a condensed version to suit their own circumstances. The sheet has been designed to cover all national and local conditions dealt with in the Working Rule Agreements of the two industries.

Also illustrated in B.S. 1151 is a standard form of pay packet. The entries on this packet correspond to entries given as an example on the "fold-out" wages sheet.

The text of the specification provides requirements for the quality, colour and dimensions of both sheet and pay packet. Also specified is a minimum bursting strength for the paper from which the pay packet is made. Price 6s.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.

MOWLEM'S ACQUISITION

John Mowlem and Co., Ltd., have acquired the 1,000 £1 Ordinary shares in the Artistic Blind Company, the whole of the issued share capital.

TRADE NEWS IN BRIEF

Galbraith Brothers, Ltd., have opened a branch office and works at 59b Windmill Road, Headington, Oxford. Tel: Oxford 61815.

Padley and Venables, Ltd., announce that the address of their London office is now Clutha House, 10 Storey's Gate, S.W.1. Tel: Whitehall 0678/9.

Chaseside Engineering Co., Ltd., announce that all service matters relating to Lancashire and Yorkshire are now dealt with from their Service Division, Philips Road, Blackburn, Lancs. Tel: Blackburn 4065.

A new booklet on steel castings has been published by **Brown, Lenox and Co., Ltd.**, Pontypridd, Glamorgan.

C. C. Wakefield and Co., Ltd., are now known as **Castrol, Ltd.**

Turners Asbestos Cement Co., Ltd., announce the formation of a special farm buildings advisory service which, for the time being, will operate from Trafford Park, Manchester, under the control of Mr. David Lee.

From **Ruston and Hornsby, Ltd.**, Lincoln, copies of KA close-coupled pumping sets leaflet, YD engine brochure, and LSSH locomotive brochure.

Howard Farrow, Ltd., have now occupied their new head office at Highfield Road, Golders Green Road, London, N.W.11. The present telephone number Meadow 3232 has not been changed but is now common to both head office and the plant depot.

A new line of concrete-testing drills that combine portability with heavy-duty action is described in a bulletin received from **Soiltest, Inc.**, 4711 W. North Avenue, Chicago, 39, Illinois, U.S.A.

PORTABLE CONVEYOR WITH 110 TONS/HR. CAPACITY

NUMEC, LTD., New Whittington, Chesterfield, are now producing a portable conveyor with a belt speed of up to 220ft. a minute and a maximum capacity of 110 tons an hour.

This is a development of their recently introduced Cadet conveyor. The elevating arms are controlled hydraulically so that a simple adjustment of the boom angle gives a range of boom positions, including penetration below ground level, and a reversing gear has been fitted.

As with the Cadet, the 16in. wide belt has 2in. high corrugated sides and is fitted with 8in. by 1½in. cross bars at a pitch of 20in. The power unit is a 320 c.c. petrol motor and its drive is totally enclosed in the elevating arms. Overall weight of the machine, which is known as the Standard, is 31cwt.

STEAM CLEANER FOR PLANT

Among the exhibits to be shown by **Wanson Co., Ltd.**, 7 Elstree Way, Borehamwood, Herts., at the forthcoming Factory Equipment Exhibition will be the Det-On Steam Cleaner which is now available to the British market. This is an independent mobile unit needing only two connections—to a power point and to water supply. Within three minutes of switching on the unit is in full working operation. One of its uses is for the maintenance and quick cleaning before repairs of civil engineering contractors' plant.

The Factory Equipment Exhibition is to be held at Belle Vue, Manchester, from September 21-October 1.

A HISTORY OF CLAY TILES

"Historical Notes" is the title of a new booklet published by **Langley London, Ltd.**, which reviews the history of clay roofing tiles.

Written by Mr. C. G. Dobson, the booklet contains many illustrations of the ancient tiling methods used at home and in overseas countries, including several examples from the collection at the Langley Museum, "Tile Centre," Borough High Street, London, S.E.1.

PLASTIC FABRICATORS FORM ASSOCIATION

A NEW association, under the title of The Laminated Plastic Fabricators Association, has been formed with a Council consisting of the five founder members.

It is the intention of the Council, not only to promote the proper application of fabricated laminated plastics, but also to encourage the specification by architects, builders, and others, of products manufactured by members of the Association. This will be done by arranging publicity, exhibitions and demonstrations and meetings to discuss matters of common interest.

Applications for membership should be addressed to the secretaries, Peat, Marwick, Mitchell and Co., 11 Ironmonger Lane, London, E.C.2.

EXPORT ORDERS FOR DAVID BROWN

Export orders totalling about £250,000 have been obtained recently by **David Brown Construction Equipment, Ltd.**, Meltham, Huddersfield. Among the destinations for the orders, which are mostly for industrial wheeled and crawler tractors, are West Africa, North Africa, India, Chile, New Zealand, Canada and Poland. Largest of the orders is for a further supply to Poland of Lincol ditchers, made by **Barford (Agricultural), Ltd.**

REPAIRING PRECAST CONCRETE

Corrosion Technical Services, Ltd., Sunleys Island, Great West Road, Brentford, Middx., a subsidiary of **John Mowlem and Co., Ltd.**, have developed a new cement for use in repairing and bonding precast concrete.

Known as **Corro-Proof Ply Cement—"B"** grade, the cement is compounded from an unsaturated polyester resin. The company claim that tests have shown that when fully cured the cement is stronger than the actual concrete. It is supplied as a two-part pack and is recommended for filling cracks in post-stressed cast concrete.

FLUORESCENT LANDING LIGHT

A miniature fluorescent lighting fitting, suitable for landing lighting in blocks of flats, has been produced by **Victor Products (Wallsend), Ltd.**, Wallsend-on-Tyne.

The two 12in. 8-W tubular fluorescent lamps fitted are said to have a life in excess of 12,000 hours when operated continuously. When operated with individual chokes they are rated at 26-W on 240-V but produce 640 lumens of light.

ROAD ROLLER HIRE RATES

The following list of hire rates have been recommended by the Road Rollers Owners Association:

Dead-weight rollers (per hour)—Petrol under 2 tons, 7s.; petrol 2 tons to 5 tons, 8s.; diesel under 5 tons, 9s.; diesel 5 tons, 12s.; diesel 6 tons and over, 13s. 6d.; steam, 7s.

Vibratory rollers (per week)—28in., £6 10s.; 32in. tandem petrol, £10; 32in. tandem diesel, £11; 32in. Walker petrol, £8; 54in. trailer, £10; 72in. trailer, £25; 40in. Rob-Roy tandem, £15.

A.C.E. "WEDA" PUMP

In the advertisement for the A.C.E. "Weda" pump (August 4 issue) the output was stated as 250 gallons per hour. This, of course, should have read 250 gallons per minute.

Trade Section

CONSOLIDATED PNEUMATIC PRODUCE NEW POWER VANE COMPRESSOR

A NEW oil flooded rotary "Power Vane" compressor of 260 c.f.m. at 100 p.s.i. capacity has been introduced by the Consolidated Pneumatic Tool Co., Ltd., of 232 Dawes Road, London, S.W.6.

The compressor has been introduced to meet the demand for a unit between the existing sizes of 210 and 365 c.f.m. and uses the "Power Vane" principle in which an eccentric rotor, equipped with sliding vanes is employed to compress air in a cylindrical chamber into which oil is pumped as a fine spray, the oil serving to lubricate and seal clearances and to cool the air at the time of compression. The 260-RO-2 is a two-stage in line compressor, powered through a safety friction drive by a six cylinder Leyland U.E.375 diesel engine.

Positive alignment of this engine and the first stage compression casing is made by a tandem piece which supports the casing and is bolted to the engine flywheel housing, and interstage tandem piece mounting the second stage. The rear end of the second stage casing is closed by the oil pump housing and cover, a head plate enclosing the front end. To prevent loss of oil and to protect the shaft bearings from dirt, a rotary shaft seal is located at the drive end of the compressor. Both first and second stage casings are of the same diameter, the second stage casing being of shorter length. Each encloses a vane type rotor which carries eight blades of non-metallic composition, the rotors

being mounted on shim adjusted tapered roller bearings at each end, thus enabling positive rotor positioning between casing head plates.

The direct injection four-stroke six cylinder Leyland U.E.375 diesel engine which powers the compressor is water-cooled and is of the overhead valve type. The continuous 12-hr. rating of the engine for this duty at a governed speed of 1,800 r.p.m., is 82 b.h.p. The cylinder bore is 4.1in. and the piston stroke is 4.75in. The compression ratio is 16 to 1. The cylinders and crank case are of cast-iron integral construction with dry, cast-iron liners and the balanced alloy steel crankshaft has nitrided surfaces. The governor is a Simms mechanical all speed type, fitted integrally with the injection pump, this being an enclosed camshaft type with positive drive from the timing gears.



The new 260 c.f.m. rotary compressor

BONDING AGENT ELIMINATES KEYING

A bonding agent for cement which is claimed to eliminate the necessity for hacking, raking out joints, or providing any other key to the surface to be rendered, has been developed by J. Manger and Son, London, E.8.

Known as Cement Weld, the agent is applied by brush, spray or roller, and can be used to bond to any clean, sound surface, such as smooth concrete, fair-faced brickwork, glazed brickwork, glazed tiles, and painted brickwork.

It can be also used, state the manufacturers, in Portland Cement mixtures to improve bond strength, dispersion, plasticity, giving the set concrete a better resistance to cracking, abrasion and the action of corrosive chemicals. A further application is for the bonding of new concrete to cured concrete.

PIN HIGH MARKET TILTING TRAILER

A 14-16-ton trailer with a tilting deck which allows one man to load a tractor or similar heavy equipment for road transport is now available in this country. Pin High Cranes, Ltd., 11 Buckingham Street, London, W.C.2, have been appointed sole concessionaires for the trailer, which is manufactured by the Winsconsin Trailer Co., Inc., Richfield, Wis.

The dual wheel tandem axle pivots on Timken roller bearings. No skids or ramps are needed to load the trailer which has a 2in. oak deck, 8ft. wide.

LIGHTWEIGHT IMMERSION VIBRATOR

The first item of a new range of concrete vibrating equipment, the Burflex "Hornet" immersion vibrator consists of a petrol engine unit, flexible shaft and vibrating needle, altogether weighing only 44lb. It is for use primarily on small concrete sections, such as lintels, beams, pillars, staircases and thin walls, encountered in the course of general building operations.

Technical details are: needle diameter 2in., length 14in.; vibrations per minute 4,000; flexible drive 8ft. or 12ft. long. The price is £60 complete with 8ft. flexible drive and vibrating needle.

Further information may be obtained from Burflex, Ltd., 7 Canal Street, Brierley Hill, Staffs.

MILFORD HAVEN PLANT DISPOSAL

Neagron (Construction), Ltd., Abbey House, Victoria Street, Westminster, S.W.1, have acquired the sole selling rights for the contracting plant now on site at the Milford Haven contract of Christiani and Nielsen, Ltd.

The machines include derricks, excavators, piling equipment, mobile cranes and all types of lifting tackle and batching plants, together with a number of sea-going vessels, pontoons and concrete-handling plant specially manufactured for the large civil engineering contract recently completed at Milford Haven.

OVERSEAS DEMAND FOR MUIR-HILL EQUIPMENT

E. BOYDELL AND CO., LTD., of Old Trafford, Manchester, report that since the lifting of import restrictions in Spain they have received quantity orders embracing the entire Muir-Hill range of dumpers, loaders and shunters. Trading with Spain has been at a standstill for more than 12 months although this market has taken large numbers of Muir-Hill machines since the war.

The Company state there is a big overseas demand for the Muir-Hill 2WL Mark II Loader with current orders from Italy, Malta, Sardinia, Algeria and Libya. The 2WL Supalift model is the subject of a contract from India and repeat orders for the Muir-Hill Cardinal Loader are being received from Iran. Recent business in the dumper field has included orders from Malaya and the Lebanon for the 10B hydraulic quarry model.

Home Orders

At home, the British Transport Commission are to take delivery of 16 Muir-Hill shunters for service on British Railways. The Stewarts and Lloyds organisation also have shunters on order and these machines will play a part in a reorganisation scheme at the Company's iron and steel works at Corby, Northants.

A fleet of Muir-Hill 10B hydraulic dumpers of the quarry type has been ordered by Farrans of Belfast and Edinburgh for work on hydro-electric projects in the Scottish Highlands. The dumpers will be engaged on the Black Esk reservoir and Glenmoriston projects.

PAINT MANUFACTURERS REORGANISE

It has been announced that Robert Ingham Clark and Co. have taken over and will develop the activities in the field of industrial and marine paints previously pursued by Scottish Paints, Renfrew and Belfast. R. Gay and Company (Scotland) has been formed to supply paint products for the decorative and maintenance trades, manufactured at their Renfrew works. The former interests of Scottish Paints have now been incorporated, as applicable, into these two companies.

The offices of R. Gay and Company (Scotland) are now at St. Andrew's Works, Renfrew, and the Scottish office of Robert Ingham Clark and Co. will shortly be moved to the same address. The Ulster office of the two companies remains at 13, Dalton Street, Belfast, 5.

MOTORISED NAIL REMOVER

A motorised nail remover, with which it is claimed one unskilled operator can withdraw 800 nails per hour clearing 700 lin. ft. of planks, has been introduced into this country by Vauxhall Boiler Co., Ltd., Bondway House, Bondway, London, S.W.8.

Of Finnish design, the equipment, which is called the Veto, is powered through a 400-440-V 3-phase 1-h.p. geared motor unit. For site working where mains voltage may not be used a 24-V 3-phase motor can be supplied for connection through a transformer.

The price ex works for the mains voltage model is £157 and for the low voltage model £172.

PILKINGTON'S DONCASTER WORKS PLANS

Planning permission of the Ministry of Housing has been received by Pilkington Brothers, Ltd., for the development of a 73-acre site adjoining the firm's Kirk Sandall works, Doncaster. The site is expected to meet expansion requirements for the next 25 years.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

F. Shenton (Blurton), Ltd., 33 Albion Street, Hanley, Stoke-on-Trent, builders, £3,000. Directors: Jessie Shenton, 99 Drubbery Lane, Longton, Stoke-on-Trent; Frank W. Axon, 8 Kenelyn Crescent, Fenton, Stoke-on-Trent.

K. M. G. Machinery, Ltd., civil engineers, £100. Directors to be appointed by the subscribers. Subscribers: D. J. Clifton, 11 Ellington Street, London, N.7 (solicitor's clerk); J. V. Walters, 16 Albert Mansions, London, S.W.11 (solicitor's clerk).

Wallis and Barnes, Ltd., 69a Lower Paddock Road, Oxhey, Watford, builders, £1,000. Directors: Mrs. Harriet Wallis, 48 Upper Paddock Road, Oxhey, Watford; Charles E. Walters, 69a Lower Paddock Road, Oxhey, Watford (permanent).

Murray and Fowler, Ltd., 3 Gerald Street, Liverpool, 6, builders, £10,000. Directors: Gilbert W. Fowler, 37 Breckside Park, Liverpool; Herbert S. Aspinall, 2 Forest Lawn, Liverpool.

Gammon (Gulf), Ltd., 202 Sloane Street, London, S.W.1, civil engineers, £10,000. Directors: John C. Gammon, 80F Eaton Square, London, S.W.1; John B. Murray, 78 Whitelands House, Cheltenham Terrace, London, S.W.3.

Adrian Ridell and Co., Ltd., builders, £1,000. Directors: Adrian Ridell and Mrs. Edith N. Ridell, Little Castlemans, Hare Hatch, near Twyford, Berks; Ronald S. Roadnight, address not stated.

West Point Builders, Ltd., 66 Wind Street, Swansea, £500. Directors: John Pinner and Edith Hannah, Twyddfa Cottage, Twyddfa, Morriston, Glam.

P.D.C. (Builders), Ltd., 55 Uxbridge Road, Ealing, London, W.5, £2,000. Directors: John R. Lyons, 53c Uxbridge Road, London, W.5; Hector R. Loader, 2 North Lodge, Ealing, London, W.5.

J. Kirkham and Son, Ltd., Midland Bank Chambers, Letchworth, builders, £1,000. Directors: James S. Kirkham and Michael Kirkham, 29a Field Lane, Letchworth.

J. W. Davies and Co., Ltd., 149a Chepstow Road, Newport, Mon., builders and general and public works contractors, £1,000. Permanent directors: John W. Davies, 80 Uphill Road, Llanrumney, Cardiff; Graham E. G. Daniels, Corner House, Rookwood Avenue, Llandaff.

B. Clarkson, Ltd., 83/84 Norwich Union Building, City Square, Leeds, 1, builders, £2,000. Directors to be appointed by subscribers. Subscribers: J. B. I. Clarkson and Mrs. L. Clarkson, 14 Atha Street, Leeds, 11. Lenrod Builders (Takeley), Ltd., 349/351 Cann Hall Road, London, E.11, £100. Directors: Harold J. Seymour, 92 Main Road, Gidea Park, Essex; Leonard B. Seymour, 9 Meadow Way, Chigwell.

Youell (Builders and Contractors), Ltd., 503 Walsgrave Road, Coventry, £100. Directors: Edward K. Youell, Spinney Farm, Warwick Road, Stratford-on-Avon; Alfred E. Youell, New Era, Cannon Close, Coventry.

M. S. Smith (Building and Plastering), Ltd., £100. Directors: Maurice S. Smith and Mrs. Margery Smith, Five Steps, Station Road, Princes Risborough.

C. W. Duke and Sons, Ltd., 131 High Street, Teddington, Middx, builders, £100. Directors: Cecil W. Duke and Terence B. Duke, 1 Dover Place, Clifton, Bristol, 8; Walford C. Howell, 131 High Street, Teddington, Middx.

Optibilt, Ltd., civil engineers, builders, etc., £100. Directors to be appointed by subscribers. Subscribers: Jean Herbert (company director) and Thos. A. Herbert (barrister), 156 Strand, W.C.2.

D. Penny (Concrete Products), Ltd., Lime Kiln Wharf, Lower Horsley Fields, Wolverhampton, £3,000. Directors: David B. Penny and Mrs. C. Penny, 8 Rutland Crescent, Bilston.

MacGregor Concrete, Ltd., 1 Cheetham Street, Oldham, £1,000. Directors: John MacGregor, Cheakers, Jacksons Edge Road, Disley; Harold M. Greene, 50 Welbeck Grove, Salford, 7.

Gilliam Gunite, Ltd., 1 Russell Green Close, Purley Way, Purley, builders, £100. Directors: Harold J. Gilliam, Spring Shaw, Church Road, Sundridge; Stanley A. Gilliam, 13 Spencer Road, South Croydon.

Wills Bros. (Builders), Ltd., £500. Directors: Percival E. Wills, Fintory, Brandon, near Coventry; Albert E. Wills, Spinney Bungalow, Brandon, near Coventry.

Harry Sparke, Ltd., 13 Thorley Lane, Timperley, Ches., builders and contractors, £2,500. Permanent directors: Harry Sparke, 13 Thorley Lane, Timperley, Ches.; John F. Purdy, 446 Manchester Road, Heaton Chapel, Stockport.

Uniform Construction Co., Ltd., 33 Great Titchfield Street, W.1, builders, £4,000. Directors: Stanley H. Cannon, 87 Hampden Way, Southgate, N.14; Arthur E. Saphin, 2 Harlesden Road, Harold Wood, Essex.

Barber, Durdle, Vokes and Co., Ltd., 86 Edgware Way, Edgware, builders, £3,000. Directors: George Barber, 72 Manor Road, Harrow; Roy H. C. Durdle, 34 Gresham Gardens, N.W.11; Robert E. Vokes and Moss Kaye.

Lloyd and Luther, Ltd., builders, £1,000. Directors: Raymond J. M. Lloyd, 1 Chestnut Avenue, Weydon Lane, Farnham, Surrey; Victor P. J. Luther, 9 Coronation Road, Aldershot, Hants.

Samuel Rolfe and Sons, Ltd., The Pines, The Street, Cheveley, Cambs., builders, £10,000. Directors: Ernest A. Clapham, 196 High Street, Newmarket; Lionel W. C. Sheppard, 5 High Street, Newmarket.

R. Adams and Co., Ltd., builders, £100. Directors: Ronald Adams, 2 Dalmeny Road, Bournemouth; Dennis Beers, 2 Heatherlea Road, Bournemouth.

R. M. Ely and Son, Ltd., 42 Palace Avenue, Paignton, builders, £1,000. Director: Robert G. Ely, 246 Torquay Road, Paignton.

Jim Burchell (Builders), Ltd., 30a Bethcar Street, Ebbw Vale, Mon., £100. Permanent managing director: James I. Burchell, 70 Letchworth Road, Ebbw Vale, Mon.

Haselhurst and Moore, Ltd., builders, £200. Directors: Arthur W. Haselhurst, 12 Northgate, Hessle, East Yorks.; Matthew M. Pettman, 2 Sunningdale Road, Hessle, East Yorks.

Jas. Prentice, Ltd., Leeds Street, Roker, Sunderland, builders, £10,000. Directors: James Prentice and Mrs. Florence M. Prentice, Parkside Farm, East Herrington, Co. Durham; Robt. W. Rawcliffe, 16 Prengarth Avenue, Sunderland.

Steward, Davies and Clark, Ltd., 3 Myrtle Road, Folkestone, builders, £1,000. Directors: Ronald A. Steward, 125 Wear Bay Road, Folkestone; Thomas J. Davies, 123 Wear Bay Road, Folkestone; Anthony C. Clark.

Wall Bros. (Civil Engineers), Ltd., 63 High Street, Newport, I. of W., £5,000. Directors: Norman G. Shears, Littledown Nodgham Lane, Carisbrooke, I. of W.; Gordon D. Wall, Burnside, Fishbourne, I. of W.

Design and Construction Co. (Bournemouth), Ltd., £100. Directors: Kenneth G. S. Llewellyn, Abchurch Chambers, St. Peters Road, Bournemouth; Margery A. M. Dean, 1 Harbour Hill Road, Poole.

Coleman and Sons (Torquay), Ltd., 22 Cavern Road, Torquay, builders, £6,000. Directors: Frederick T. Coleman and Richard C. Coleman, 32 Victoria Road, Bidford-on-Avon, near Alcester, Warwicks.; Raymond J. Coleman, "Tranor," Jacks Lane, Barton Road, Torquay.

R. C. Wood (Builders), Ltd., 30 George Street, Daybrook, Notts., £5,000. Directors: Reginald C. Wood (permanent) and Mrs. Nellie M. Wood, 30 George Street, Daybrook, Notts.; Reginald J. Wood and Mrs. Sylvia Wood, 56 Birchfield Road, Arnold, Notts.

FOR THE DIARY

Aug. 26

North Western District of the Institution of Municipal Engineers. Visit of Associate Members and Students Section to Ribblesdale Cement Works, Clitheroe.

Aug. 30

Royal Institution of Chartered Surveyors. Annual conference at the University College of North Wales, Bangor. Aug. 30-Sept. 3.

Sept. 1

The Contractors' Mechanical Plant Engineers—London Branch. Meeting at Park Royal Hotel, Park Royal, 7.30 p.m. Film show by Atlas Copco.

Sept. 8

Meeting of the Southern Counties branch of the Contractors' Mechanical Plant Engineers, The Surrey Tavern, Morden Road, Morden, 7.30 p.m. Film show.

Sept. 11

International Trade Fair at Brno, Czechoslovakia. Sept. 11-25.

Sept. 13

Eighth annual residential study course arranged by the South-Western District of the Institution of Municipal Engineers. Dillington House, Ilminster, Somerset. Sept. 13-15.

Sept. 14

Meeting of the Glasgow branch of the Contractors' Mechanical Plant Engineers. Mores' Hotel, India Street, Glasgow. 7.15 p.m. Film show.

Meeting of the Western Branch of the Institution of Plant Engineers, Royal

Clarence Hotel, Exeter. 7 p.m. Film and talk on the construction of the M.1 Motorway.

Sept. 16

Meeting of the Birmingham branch of the Institution of Plant Engineers, Imperial Hotel, Birmingham. 7.30 p.m. Mobile Plant Discussion Group.

Annual meeting of the North Western District of the Institution of Municipal Engineers at the Town Hall, Rochdale, 11.30 a.m.

Sept. 21

Conference of the British Waterworks Association, Edinburgh, Sept. 21-23.

Factory Equipment Exhibition, Belle Vue, Manchester. Sept. 21-Oct. 1.

Sept. 23

Commercial Motor Show, Earl's Court, London, Sept. 23-Oct. 1.

Sept. 30

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.1. 6.30 p.m. Discussion—New and Pending Legislation—introduced by J. L. Spiller.

Oct. 3

Conference of the Institute of Quarrying, North British Hotel, Edinburgh, Oct. 3-6.

Oct. 6

Convention on Parking arranged by the Institution of Municipal Engineers at Central Hall, London, 10 a.m.

Oct. 11

Building Trades Exhibition, City Hall, Deansgate, Manchester, Oct. 11-22.

Annual dinner of the Contractors' Plant Association, Dorchester Hotel, London. 7.30 p.m.

Oct. 13

Twenty-first national conference of the Council for the Preservation of Rural England, Pavilion, Weymouth. Oct. 13-15.

Oct. 14

Annual dinner and dance of the Institute of Quantity Surveyors at the Trocadero Restaurant, London, W.1.

Oct. 18

Effluent and Water Treatment Exhibition and Convention, Seymour Hall, London Oct. 18-21.

Oct. 19

Annual general meeting of the Institute of Quantity Surveyors at 6.30 p.m.

Oct. 21

Annual dinner of the Society of Engineers at the House of Commons.

Oct. 27

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.1. 6.30 p.m. Paper "The Biological Treatment of Chemical Wastes," by I. S. Wilson and Miss E. Harrison.

Nov. 1

Annual dinner of the British Road Tar Association, Grosvenor House, London, W.1. 7.30 p.m.

Nov. 14

Public Works and Municipal Services Congress and Exhibition, Olympia, London, Nov. 14-19.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING (See also Housing Schemes)

Abroath, Angus.—Dean of Guild Court have approved the following: Extension and modernisation of 163 High Street and Kirk Square for F. W. Woolworth and Co., Ltd., Woolworth House, 242/246 Marylebone Road, London, N.W.1, estimated cost £47,500; alterations to Alma Works, Millgate, for Francis Webster and Son, Ltd., £7,000.

Acton, Middx.—C.C. recommended to approve scheme for adaptations to 61 Avenue Road for use as a clinic. Estimated cost £1,045.

Acton, Middx.—B.C. recommended to authorise repairs at 119 Rusthall Avenue, 63 Fletcher Road, 15 Mansell Road and 4 Montgomery Road at a total estimated cost of £1,348.

Aldershot, Hants.—C.C. recommended to approve the provision of two temporary classrooms at Manor Park County Secondary Boys' School. Estimated cost £3,000.

Andover, Hants.—C.C. recommended to approve scheme for provision of (a) one temporary classroom and fencing and (b) staff room and sanitary accommodation at Vernham Dean Gillum's C.E. (Controlled) School. Estimated cost (a) £1,950 and (b) £1,300.

Angmering, Sussex.—Ministry have approved the erection of a factory, including showroom, flats, offices and laboratories, at the corner of Station Road and Worthing Road for T. Gerrard and Co., Ltd., 48 Pentonville Road, London, N.1.

Ayrshire.—E.C. propose the following new schools projects to start by March next year: New R.C. school at Prestwick; extension to Dundonald Primary School; new school at Logan, Cumnock; an R.C. school at Largs, the first phase of the Ayr Technical College; Ayr Grammar School to two-stream primary; and Ayr Academy, additional accommodation.

Banstead, Surrey.—U.D.C. have approved the provision of 178 garages or garage spaces to serve 212 dwellings at Chapel Way housing site.

Basingstoke, Hants.—C.C. recommended to approve scheme for provision of two additional classrooms in traditional construction at Bramley C.E. (Controlled) Primary School, estimated cost £8,500; two temporary classrooms at the county high school and two division rooms at Queen Mary's Grammar School, £3,000 and £2,300 respectively.

Billingham-on-Tees, Dur.—British Titan Products, Ltd., are planning the erection of an eight-storey office block at Haverton Hill Road.

Birmingham.—West Midlands Gas Board to erect a 13-storey tower block of offices at Broad Street. The Board's architect is N. Cooley; quantity surveyors—Silk and Frazier, Portland Road, Edgbaston, Birmingham; consulting engineers—Husband and Co., 388 Glossop Road, Sheffield and Hoare, Lea and Partners, 23 St. James Road, Birmingham, 15. Contractors not yet appointed. Estimated cost £1m.

Birmingham.—Regional Hospital Board recommended to approve in principle, schemes for the provision of a long stay annexe at Hollymoor Hospital, estimated cost £267,350; artificial limb and appliance centre and two temporary operating theatres at Selly Oak Hospital, £118,000 and £6,000, respectively; include in capital programme schemes for provision of medical library at the Accident Hospital and extension to canteen at Monyhull Hospital, £3,000 and £3,844, respectively. City Council recommended to approve the provision of a junior training centre at Erdington. Estimated cost £36,726.

Bridgnorth, Salop.—Birmingham Regional Hospital Board recommended to approve in

principle, scheme for the provision of an X-ray department and corridor at Bridgnorth and South Shropshire Infirmary. Estimated cost £9,000.

Burnley, Lancs.—Clifford Tee and Gale, 43 Frederick Road, Birmingham, 15, are the architects for erection of new factory at Eastern Avenue, for Joseph Lucas, Ltd.

Buxton, Derbys.—B.C. recommended to approve plans for factory extension on land adjacent to 31 Hardwick Square South, for Otter Controls, Ltd., Market Street, Buxton.

Cardiff.—Kenneth Graham, 10 Churchill Way, Cardiff, is the architect for the erection of a refrigerator factory in the dock area, for Westgate Engineers, Ltd., Collingdon Road, Cardiff. Estimated cost £30,000.

Cardiff.—Thomas and Evans, Ltd., Hannah Street, Porth, propose the erection of a soft drinks factory at Llannishen, adjacent to their new regional headquarters. Estimated cost £200,000.

Carlisle, Cumb.—City Council have generally approved outline plans for showroom, workshops and storage at London Road for the Scottish Motor Traction Co., Ltd. The architect is F. G. Jackson, Lowther Arcade Chambers, Lowther Street; J. B. Dand, 77 Warwick Road is the architect for workshop and warehouse in Byron Street for F. Proudfoot, Ltd., Tower Street.

E.C. seeking sanction to borrow £93,000 for additions to Harraby Secondary School.

Carlisle, Cumb.—City Council to appoint Johnston and Wright, 13 Castle Street, architects, for the erection of the new two-form entry primary school at Morton.

City Engineer to proceed with preparation of scheme for provision of a 331-metre swimming pool and ancillaries on the site at present occupied as a water depot in James Street.

Cardarthen.—Tenders are to be obtained in mid-September for extensions at Trinity College. Architects for the scheme are the Architects' Co-Partnership, 44 Charlotte Street, London, W.1, quantity surveyors are Davis Belfield and Everest, 9 Ashley Place, London, S.W.1, and the structural engineers are Ove Arup and Partners, 8 Fitzroy Street, London, W.1. Estimated cost £320,000.

Chelmsford, Essex.—B.C. recommended to approve site at Melbourne Park for the erection of public conveniences.

Chelsea.—B.C. recommended to have detailed drawings prepared by the Borough Engineer, and tenders invited, for a scheme to modernise changing accommodation of small swimming pool and adaptation of first floor accommodation in the public baths. Estimated cost £4,500.

Chertsey, Surrey.—C.C. recommended to approve plans for the construction of a new fire station. Estimated cost £52,540.

Chessington, Surrey.—Eric Firmin and Partners, Thavies Inn House, Holborn Circus, London, E.C.1, are the architects for erection of a new factory in Cox Lane, for Solatron Laboratory Instruments, Ltd.

Coleraine, Londonderry.—C. G. Dalzell, Northern Bank Buildings, Coleraine, is the architect for a pavilion to be erected at the Ballycastle Road playing fields, for B.C. Estimated cost £8,000.

Consett, Dur.—British Railways (North-Eastern Region), York, are to erect office block at Consett goods station. British Railways have prepared their own plans. No contracts let.

U.D.C. have discussed with J. G. Poulson, architect, 54 Albert Road, Middlesbrough, a £100,000 scheme for the construction of swimming baths at Consett.

Corwall.—Co. Fire Services Committee have approved scheme for adaptations at Truro Fire Brigade headquarters. Estimated cost £3,000.

Coventry.—Birmingham Regional Hospital Board recommended to approve in principle, schemes for the provision of a new general hospital at Walsgrave and a new dental department at the Coventry and Warwickshire Hospital, estimated cost £4,808,322 and £23,720, respectively; include in the capital programme, scheme for conversion to provide ophthalmic in-patient department at Paybody Hospital and conversion of ward at Whitley Hospital, £15,000.

Cromer, Suffolk.—East Anglian Regional Hospital Board have appointed J. Owen Bond and Son, St. Faiths House, Mountergate,

Norwich, as architects and P. Pank and Partners, 15 The Close, Norwich, as quantity surveyors, for improvements to nurses' quarters at Mundesley Hospital.

Dartford, Kent.—South East Metropolitan Regional Hospital Board approved the appointment of Woodroffe, Buchanan and Coulter, 5 Bedford Row, London, W.C.1, as architects for the development of Joyce Green Hospital.

Dudley, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme to modernise wards A and B at Burton Road Hospital. Estimated cost £35,350.

Dumfriesshire.—Scottish Home Department have approved the modernisation of Sanquhar Academy and a new £180,000 building will be erected at Auchengour Drive, Kelloholm, Kirkcubright.

Dundee, Angus.—Ian Burke, Martin and Partners, 11 South Tay Street, Dundee, are the architects for the comprehensive redevelopment of the Overgate area, including the High Street island site and part of Nethergate for The Murrayfield Real Estate Co., Ltd. Estimated cost £1,750,000.

Durham.—Improvements are to be carried out to the operating theatre at Dryburn Hospital for Newcastle Regional Hospital Board. Estimated cost £5,000.

Nuffield Provincial Hospital Trust is to bear the cost, estimated at £55,000, of constructing a pre-discharge ward at Dryburn Hospital. The work will be carried out by Newcastle Regional Hospital Board, whose chief architect is P. H. Knighton.

Ealing, Middx.—B.C. recommended to approve plans prepared by the County Architect for the proposed Oldfield and Wood End community centre; subject to C.C. approval invite tenders from selected contractors for improvement of science accommodation at Brentside Secondary Boys' School; prepare preliminary plans for a swimming pool near Northolt Station.

East Grinstead, Sussex.—South East Metropolitan Regional Hospital Board recommended to appoint Maurice G. Bland and Partners, 36 Charterfield Avenue, London, S.W.15, as consulting engineers for a proposed new casualty department at Queen Victoria Hospital.

Eastleigh, Hants.—C.C. recommended to approve the provision of one temporary classroom at Barton Peveril County Grammar School, estimated cost £1,850; working drawings are in hand for extension of North End County Secondary School to four-form entry.

Eccles, Lancs.—B.C. Planning Committee have approved plans for erection of a despatch building and office block at Bentcliffe Works, Salters Lane, for Lankro Chemicals, Ltd.

Edinburgh.—The Merchant Company, 22 Hanover Street, Edinburgh, 2, propose to erect buildings to house the Mary Erskine School for Girls at Ravelston House. Estimated cost £500,000.

Edinburgh.—Health Committee are to erect a welfare clinic to serve the Meadowbank and Piershill areas. Estimated cost £9,000.

Planning Committee have approved an extension to existing bonded premises in the St. Leonards district for Distillers Co., Ltd., 12 Torphichen Street, Edinburgh, 3.

Edmonton, Middx.—North-East Metropolitan Regional Hospital Board are preparing working drawings for improvements to the operating theatre at the North Middlesex Hospital.

Enfield, Middx.—C.C. recommended to approve the construction of a highway depot and ancillary works at Hoe Lane. Estimated cost £22,500.

Enfield, Middx.—Co. E.C. have approved plans for a new primary school at Hadley Wood estate. Estimated cost £66,465.

Exeter.—City Council recommended to approve plans for the development of part I of group 6 at Sidwell Street shopping centre, comprising the erection of three-storey offices, shops, flats and maisonnettes.

Exeter.—Plans have been prepared for the first stage of the development of the Princess Elizabeth Orthopaedic Hospital, Bucknell Bore, including the provision of new out-patients' X-ray and physiotherapy departments, for the South Western Regional Hospital Board. Estimated cost £100,000.

Farnborough, Hants.—C.C. recommended to approve the provision of two temporary classrooms at the county grammar school. Estimated cost £3,000.

Finchley, Middx.—C.C. recommended to approve schemes for the installation of showers and changing accommodation adjoining the gymnasium and provision of sanitary accommodation on the playing field at Christ's College. Estimated cost £2,500 and £2,100 respectively.

Finchley, Middx.—C.C. recommended to approve the erection of a preparation room for the science laboratory at Alder Secondary Modern School. Estimated cost £1,338.

Fulham, L.C.C.—planning permission is sought for offices on a site between Putney Bridge Approach, Gonville Street, Fulham High Street and Willow Bank, for which the architects are R. Seifert and Partners, 28 Great Ormond Street, London, W.C.1.

Gateshead, Dur.—Clarke, Chapman and Co., Ltd., are to erect offices in Neilson Road and have prepared their own plans.

Corporation Art Gallery Committee have approved in principle extension scheme at Shipley Art Gallery. Estimated cost £30,000.

Broughs, Ltd., Oxford Street, Newcastle upon Tyne, have applied to the local authority for a site at East Gateshead on which to erect a food distribution centre.

Corporation Children's Committee is considering a £60,000 scheme for the construction of a remand home at Penshaw House Nursery. Outline plans have been prepared.

Glasgow.—Grenfell Baines and Hargreaves, Guildhall Street, Preston, Lancs., have submitted the winning design for the men's hall of residence at Garscube estate for Glasgow University. Estimated cost £225,000.

Godalming, Surrey.—Governing Body of Charterhouse School have launched an appeal for £300,000 for modernising the boys' houses.

Gosforth, Northumb.—U.D.C. to spend £10,720 on the modernisation of 74 houses in the Kenton area.

Guildford, Surrey.—R.D.C. have raised no objection to B.C.'s proposal to erect a new cattle market at Slyfield Green, off Woodlands Road.

B.C. recommended to prepare outline scheme for a youth centre building at Great Goodwin Drive, Bushy Hill.

Halifax, Yorks.—Walsh, Wilkinson and Coutts, 10 Harrison Road, preparing working drawings for erection of a commercial vehicle repair shop, petrol filling station and commercial vehicle showrooms at junction of New Road and Church Street, for the Halifax Motor Co., Ltd.

Hampshire.—C.C. recommended to approve schemes for the erection of new school premises at East Woodhay C.E. (Aided) Primary School and conversion of existing accommodation into new practical rooms at Hardley County Secondary School. Estimated cost £1,644 and £10,400 respectively.

Harborough, Magna, War.—Birmingham Regional Hospital Board recommended to include in capital programme, scheme for adaptations in connection with experimental midwifery school at St. Mary's Hospital. Estimated cost £5,000.

Harrow, Middx.—C.C. recommended to approve scheme for a branch library at Grant Road, Wealdstone. Estimated cost £31,925.

Harrow, Middx.—North-West Metropolitan Regional Hospital Board to submit to Ministry, for approval, scheme for a 300-bed hospital at Northwick Park. Estimated cost £2m.

Central Middlesex Area Planning Committee have approved outline applications to extend existing store and erect a retail shop with showrooms, stockrooms and/or offices for subletting above on part of the site at Station Road, for Sopors of Harrow, Ltd.

C.C. recommended to approve the erection of a girls' changing room at Blackwell Secondary School. Estimated cost £1,969.

Harrow, Middx.—C.C. recommended, subject to loan consent and planning permission, to approve extension and adaptation of the Weald Junior School, estimated cost £19,975, and erection of branch library at Grant Road, £36,665.

Hartley Wintney, Hants.—C.C. recommended to approve the provision of two temporary classrooms at the county secondary school. Estimated cost £3,000.

Hebburn-on-Tyne, Dur.—Planning approval is recommended for the erection of four-storey block of offices for A. Reyrolle and Co., Ltd. The architects are Cackett, Burns Dick and MacKellar, Ellison Place, Newcastle upon Tyne.

J. M. Angus, 3 Gallowgate, Newcastle upon Tyne, is the architect for new gasworkers' club in Campbell Park Road and Finchale Road.

Hendon, Middx.—C.C. recommended to approve scheme for the erection of a clinic during 1960/61. Estimated cost £7,000.

Heston, Middx.—C.C. recommended, subject to M.E. approval, loan consent and planning permission, to approve extension and adaptation of the Heston School for the Deaf. Estimated cost £24,050.

Hexham, Northumb.—U.D.C. to erect an open-air swimming bath. Estimated cost £15,000.

Holborn.—L.C.C. planning permission sought for erection of a theatre, shops, flats, show-room, local authority garage and car park on Winter Garden Theatre site, 162-173 Drury Lane and 1-5 Parker Street, for which the architects are Kenneth Anns and Partners, 1 Lincoln's Inn Fields, London, W.C.2.

Houghton-le-Spring, Dur.—Durham Divisional Coal Board are to reconstruct Lampton Engine Works. Scheme is being considered by the planning authorities. Estimated cost £500,000; are to erect engine sheds at New Herrington.

Huddersfield, Yorks.—J. S. Woodhouse, Rowley Lane, Lepton, is the architect for extension to Parish Hall, for the Parochial Church Council. Estimated cost £10,000.

Inverbervie, Kincardines.—B.C. have approved in principle plans for the reconstruction of council chambers, assembly room, committee room and offices. Estimated cost £5,000.

Isleworth, Middx.—C.C. have approved an adult training centre for males at Acton Lodge. Estimated cost £37,690.

Jarrow, Dur.—B.C. considering the erection of a 35,000 sq. ft. factory fronting on to the River Tyne, to be let to a Lincolnshire firm. Plans by the Borough Engineer. Corporation intends proceeding with the work as soon as possible.

Kendall, Westmor.—B.C. recommended to approve in principle, layout plan for alterations at slaughterhouse. Estimated cost £28,500.

Kensington.—L.C.C. planning permission sought for erection of a transit hotel on London Transport Executive sites at Cromwell Road and Knaresborough Place, for which the architects are R. Seifert and Partners, 28 Great Ormond Street, London, W.C.1.

Kensington.—L.C.C. town planning permission is being sought for proposed rebuilding of Royal Palace Hotel, 2-14 Kensington High Street, for which the architects are R. Seifert and Partners, 28 Great Ormond Street, London, W.C.1.

Kingston-upon-Thames, Surrey.—B.C. propose a new sports pavilion for Latchmere Recreation Ground.

Lambeth.—L.C.C. planning permission sought for housing, shops, offices and light industry at Reedwood Street, Wincott Street, Renfrew Road, Gilbert Road and Kempsford Road, for which the architects are Clayton, Black and Daviel, 16 Dartmouth Street, London, S.W.1; and for new tube station buildings and office block at Lambeth North Underground Station and 112 Westminster Bridge Road, for which the architects are Devereux and Davies, 3 Gower Street, London, W.C.1.

Leeds.—E. Evan Morgan, 15 Park Row, is the architect and Derrick Kendall, 21 Park Street, the quantity surveyor for erection of shops and offices at junction of Merriem Street and Woodhouse Lane, for Albion and City Properties, Ltd. Scheme in very early stages. Work not expected to commence until 1963.

Leeds.—City Architect to be asked to prepare provisional plans for the new police headquarters.

City Council recommended to make provision for expenditure amounting to £8,000 for erection of communal depot premises on the Ireland Wood estate; to authorise expenditure of £1,000 for supply and erection of a new steel chimney at asphalt plant in Pottery Field depot.

City Council recommended to approve amended plans for submission to the Ministry for erection of a special unit for spastics on a site adjoining Stanningley occupation Centre. Estimated cost £20,680.

City Council recommended to approve expenditure of £5,500 for appropriation, alterations and adaptations to the Halton Dial substation to provide street lighting depot.

City Council recommended to approve in principle layout and sketch plans for proposed Remand Home and staff accommodation, and layout plan for alterations and extensions at Shadwell School for Boys.

London.—A site at 69-73 Theobalds Road has been acquired by the Bernard Sunley organisation, who are to proceed immediately with the erection of an office and showroom building, to include a garage in the basement.

London.—L.C.C. planning permission is sought for an office building at 29-32 Finsbury Square, London, E.C.2, for which plans have been submitted by Messrs. Clutton, 5 Great College Street, London, S.W.1.

London.—City Corporation propose erection of a divisional police station at Wood Street-Love Lane site, to plans by Farquharson, McMorran and Whitby, 14 North Audley, London, W.1.

Lymington, Hants.—C.C. recommended to approve scheme for a new practical block at Priestlands County Secondary School. Estimated cost £20,000.

Lyndhurst, Hants.—C.C. recommended to approve scheme for the erection of a drill

tower and provision of additional garage accommodation at the fire station. Estimated cost £6,600.

Malden and Coombe, Surrey.—B.C. have approved plans for erection of 23 garages at Kingsnypont Park housing estate, Kingston Hill.

Manchester.—City Council recommended to apply for sanction to borrow £24,275 for provision of freight accommodation in hangar 7 at Manchester Airport.

Merthyr Tydfil, Glam.—B.C. to negotiate for a site adjoining Bargoed Terrace, Treharris, for the erection of a clinic. Estimated cost £10,000.

Middlesbrough, Yorks.—Elder and Lester, 65 Albert Road, are the architects for the erection of a two-storey block of 12 flats and garages in the grounds of 7 The Crescent for the North-Eastern Land Holding Co. Outline approval granted to plans for additional showroom, office, store at Newport Road, for Stockdale Bros. (the architect is J. V. Spencer, 171 Albert Road); Goundry and McCallum, 117 Albert Road, have submitted proposals to the planning authorities, on behalf of W. Anderson, for offices and stores on the site of demolished houses in Albert Street; alterations and additions are proposed to the National Reserve Club, Market Place, North Ormesby, to plans by N. H. Cox, architects to Vaux and Associated Breweries, Ltd., Sunderland; J. Coulson Backhouse, North End, Hutton Rudby, prepared plans for alterations to the Middlesbrough United Services Club and Institute, 149-51 Grange Road.

R.C. authorities seeking permission to extend the St. Pius X R.C. School.

E.C. are planning the erection of a school for the deaf and a school for educationally subnormal children at Saltersgill.

Additions are proposed at 187-189 Newport Road for Eaton (Tees-side), Ltd. The architects are Kitching and Co., 21 Albert Road.

Middlesbrough, Yorks.—B.C. to appoint Elder and Lester, 65 Albert Road, to prepare plans for erection of a grandstand at sports stadium in Clairville Road. Estimated cost £32,000.

Middlesex.—E.C. have approved the erection of hostel and canteen blocks at Trent Park Teachers' Training College, Cockfosters. Estimated cost £44,122.

M.E. have approved the erection of a primary school adjoining Duchy Road on the Hadley Wood estate for E.C. Estimated cost £66,000.

E.C. recommended to approve the first phase of the building. Estimated cost £55,805.

Middlesex.—C.C. recommended to approve scheme for the erection of a second glass-house together with an extension of the existing heating plant at Little London Nursery, Moorcroft estate. Estimated cost £1,250.

Midlothian.—C.C. propose a school building programme to be completed over the next four years as follows: New Currie Primary School, estimated cost £80,000; Musselburgh R.C. (additions), £11,000; New Easthouses and R.C. Schools, £250,000; East Calder J.S. (extension), £45,000; Lasswade Secondary (extension), £160,000; Carrington (additions), £5,000; New Currie Secondary, £330,000; New Dalkeith R.C. Secondary, £350,000; King's Park Primary (extension), £30,000; West Calder High, £330,000; Cousland (additions), £5,000; Howgate (additions), £5,000; New Loanhead R.C., £40,000; New Gorebridge Primary, £76,000; Roslin Primary (additions), £6,000; Further Education College, £550,000; Musselburgh Grammar (extension), £160,000; Woodburn Primary (extension), £18,000; East Calder R.C., £40,000; New Musselburgh Burgh, £130,000; Newtongrange Primary (extension), £36,000.

Mitcham, Surrey.—B.C. recommended to apply for sanction to borrow £3,970 for public convenience at Tooting Junction, and £3,000 for conversion of sheds to provide garages on the Pollards Hill estate.

Mitcham, Surrey.—B.C. recommended to grant outline planning permission, subject to conditions, for extension of factory, including four-storey office block at Willow Lane, for Morfax, Ltd. B. L. Clark and Partners, consulting engineers, 39 Victoria Street, London, S.W.1.

Morpeth, Northumb.—Ministry have decided to allow the development of land at Cresswell Hall as a site for 150 caravans for T. R. Holmes, Newcastle upon Tyne. The consulting engineer is R. Thornton, Lloyds Bank Chambers, Newgate Street, Morpeth.

Nelson, Lancs.—B.C. recommended to approve provisionally sketch plans for adaptation of the Chapel portion of the Civic Centre and instruct borough surveyor to prepare estimate for carrying out the work and to prepare further plans, etc., for additional works.

Newbiggin, Northumb.—Thomas Manley, 75 Front Street, seeking permission to erect a slaughterhouse near Moor Croft.

Newcastle upon Tyne.—Barrett, Sons and Partners, High Bridge, have been appointed quantity surveyors by Newcastle Regional Hospital Board for casualty department at General Hospital (revised sketch plans for the work have been prepared); Mouchel and Partners, 24 Claremont Place, have been appointed consulting engineers by the Hospital Board for the preparation of the foundations and the steel framework in connection with a new boilerhouse and laundry, etc., at General Hospital.

Additions are proposed to St. Cuthbert's Girls' School, Gretna Road. Work includes science block, assembly hall, dining room, kitchen, library and toilet accommodation. The architect is David Brown, 10 Lambton Road, Jesmond.

S. W. Milburn and Partners, 9 Esplanade, Sunderland, are the architects for the conversion of the disused Grainger Cinema into shop premises for G. A. Dunn and Co., Ltd., 98 Grainger Street; K. S. Biskupek, 19 Oxford Street, prepared plans for office additions, Shields Road West, for R. Leech, Ltd.; plans approved for alterations in Leazes Park Road for new premises for Newcastle Labour Club. The architect is J. M. Angus, 3 Gallowgate. Plans approved for additional floor at research block at College Avenue for King's College. The architects are Basil Spence and Partners, 40 Moray Place, Edinburgh. Alterations and additions are to be carried out in St. Andrew Street for Bulman and Leatherland, Ltd. Plans are being prepared by Marshall and Tweedy, 36 Blackett Street.

E.C. approved sketch plans for stage 5 of the new Rutherford College of Technology (G. Kenyon, city architect) and College of Further Education, St. Mary's Place (architects, W. B. Edwards and Partners, 5 Claremont Buildings, Newcastle).

City Council recommended to spend £10,000 on the purchase of Byker Parish Church Hall for development as a community centre.

Northamptonshire.—C.C. recommended to approve plans for the erection of a building and lean-to on smallholding at Boughdon. Estimated cost £1,200.

North Riding.—E.C. have appointed Wheatley, Bryon and Partners, Ltd., Federal House, 2 Down Place, London, W.6, structural engineers for the Loftus County Modern School. The architects are Hadfield, Cawkwell and Davidson, 17 Bromgrove Road, Sheffield; have approved sketch plans for alterations and additions to Ingleby Arncliffe C. of E. School; to invite tenders shortly for the erection of the Ormesby Infant School. The architect is D. C. Hall, Duke Street, St. James's London, S.W.1, and the quantity surveyors, Davis, Belfield and Everest, 9 Ashley Place, London, S.W.1; approved plans for combined library and health centre at Loftus; approved sketch plans for the final instalment of the Cleveland Technical College. Collins, Melvin Ward and Partners, architects, 5 Manchester Square, London, W.1.

Northwood, Middlesex.—North - West Regional Hospital Board have approved the erection of an animal house for research unit at Vernon Hospital.

Norwich.—East Anglian Regional Hospital Board have appointed C. L. Lister, 19 King Street, as architect and R. G. Mason, 14 The Close, as quantity surveyor, for the erection of a nurse training school at Hellesdon Hospital.

Nottingham.—City Council recommended to submit to Ministry, for approval, scheme for the erection of a hostel for 50 persons at Chippenham Road, Bestwood Park estate. Estimated cost £74,520.

Nuneaton, War.—B.C. recommended to appoint O. Wainwright, Union Chambers, Birmingham, 2, as quantity surveyor, for scheme of improvements to abattoir; approve plans for two additional classrooms at Abbey C.E. School and extensions to Swinerton High School; scheme for improvements to 56 houses in the Sandon Road/Winfield Road area. Estimated cost £14,000.

B.C. recommended to approve plan for the reconstruction of The Granby Head at corner of Bond Gate and Wheat Street, for Phipps Northampton Brewery Co., Ltd., Bridge Street, Northampton.

Oxford.—City Council recommended to approve plans for the erection of an old people's hostel, five old people's bungalows and 27 garages at south side of Elshfield Way; redevelopment at Hockmore Street to provide shops with residential accommodation and multi-storey car park (phase I of Conley Centre); scheme for re-roofing and rendering of external walls of 60 houses at Rose Hill estate and 54 at Barton estate.

Paddington.—L.C.C. town planning permission is being sought for a seven-storey hotel extension at 20-26 Talbot Square and 1-24 Conduit Place, for which the architect is J. Brewster, 16 Porchester Place, London, W.2.

Portsmouth.—Hampshire C.C. recommended to approve schemes for conversion of physics laboratory at Purbrook Park County Grammar School and provision of six temporary classrooms at Cowplain County School. Estimated cost £3,000 and £9,000, respectively.

Potters Bar, Middx.—C.C. recommended to approve the erection of a general purpose building at Chase Farm. Estimated cost £2,200.

Prudhoe, Northumb.—U.D.C. have asked Northumberland C.C. for a grant towards a £30,000 scheme (including the cost of purchasing the building) for converting the Rex Cinema into an indoor swimming pool.

Renfrewshire.—Scottish Council for the Care of Spastics, Scotsraig Park Road, Paisley, propose to erect a centre comprising a residential school, workshops, outpatients facilities, etc., at Meikle Cosford, near Johnstone. Estimated cost £100,000.

Richmond, Surrey.—B.C. have approved, in principle, scheme for providing an indoor pool, outdoor pool and private baths in Old Deer Park. Estimated cost £227,000.

Co. Planning Committee have approved plans for extension to Meadlands Primary School, Ham.

Roxburghshire.—C.C. have approved in principle the erection of a new children's home, in the St. Boswells or Melrose districts, to replace Wilton House, Hawick.

Rugby, War.—B.C. recommended to approve, in principle, scheme for the erection of a highways depot at Hunters Lane and authorise the Borough Surveyor to proceed with preparation of bills of quantities, with a view to inviting tenders for the work. Estimated cost £128,000.

St. Marylebone.—L.C.C. town planning permission is being sought for the following: Flats and basement garage at 33-43 Bryanston Square, W.1 (architects, Sir A. E. Richardson and E. A. S. Houfe, 24 Queen Anne Street, London, W.1); multi-storey car park at 30-42 Harley Street and 12-16 Queen Anne Street (architects, H. V. Lobb and Partners, 20 Gower Street, W.C.1).

St. Marylebone.—L.C.C. planning permission sought for following: Development on structural terraced platforms over railway, consisting of a 30-storey office block, 20-storey blocks of flats, stores, shops, theatre, cinema and recreation centre, in the area between Lisson Grove, Rossmore Road, Park Road and Grand Union Canal (St. Marylebone Goods Station), for which the architects are Stewart and Shirley Thomson, 19 Brompton Square, London, S.W.3; 17-storey blocks of flats at 1, 1a and 1b Avenue Road, for which the architect is Erno Goldfinger, 69 Piccadilly, London, W.1; showrooms, offices and hotel at 1, 3 and 5 Lisson Grove and 1 and 2 and 9-11 Bendall Mews, for Provostment, Ltd., 82-90 Seymour Place, London, W.1.

St. Pancras.—B.C. recommended to have future schemes for conversion and repair of properties prepared by the Borough Engineer and carried out by direct labour.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £6,230 for improvements to Metrology Laboratory at the Royal Technical College.

Sevenoaks, Kent.—South East Metropolitan Regional Hospital Board recommended to approve the appointment of Sir William Baird and Partners, 7 Catherine Place, London, S.W.1, as quantity surveyors for the development of Sevenoaks Hospital.

Shoreditch.—B.C. recommended to approve modernisation of the public laundry at Haggerston Baths, and to invite tenders for the necessary plant for the alterations to the building.

Shrewsbury, Salop.—Birmingham Regional Hospital Board recommended to approve in principle, schemes for alterations to the casualty department at the Royal Salop Infirmary and extensions to the isolation block and adaptations to two children's wards at Cophorne Hospital. Estimated cost £8,400 and £10,100, respectively.

Southall, Middx.—C.C. recommended to approve scheme for improvement of canteen and provision of equipment, etc., at the Dormers Wells Secondary Boys' School. Estimated cost £1,180.

C.C. recommended, subject to loan consent and planning permission, to approve second instalment of adaptations at Featherstone former secondary school. Estimated cost £3,550.

Southgate, Middx.—B.C. recommended to invite tenders for repairs and adaptations at 190 Green Lanes.

Southgate, Middx.—C.C. recommended to approve adaptation of 47 Bowes Road, for use as an annexe to the Hornsey College of Art. Estimated cost £3,500.

South Shields, Dur.—Plans are being prepared by Reavell and Cahill, Lloyds Bank Chambers, Alnwick, for the rebuilding of Martins Bank, Laygate; Wetherell, Lamb and

Partners, Picton Place, Newcastle upon Tyne, are the architects for amusement arcades at South Shields Foreshore for Burt, Sheeran and Powell.

E.C. approved sketch plans for hostel at South Shields Marine and Technical College, and the approval of the M.E. is being sought. It is likely to be some months before tenders are obtained. The architects are Meade Taylor and Wilson, 33 Lansdowne Road, London, W.1; during 1961-62 the E.C. is to erect an additional classroom at Simonside Junior School, and extend Harton County Junior Boys' and Girls' Schools.

C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne, is the architect for warehouse and offices on the Simonside industrial estate for W. Duncan, Ltd., 8 Nile Street.

Staines, Middx.—C.C. recommended, subject to loan consent and planning permission, to approve erection of branch library at Church Road, Ashford. Estimated cost £36,170.

Stockton-on-Tees, Dur.—Borough Architect to prepare a scheme for converting grammar school into youth centre. Borough Engineer has been asked to prepare plans for a £150,000 bus depot, including administration block, workshops, etc.

V. O'Connor, 82 Debdon Gardens, Newcastle upon Tyne, prepared plans for offices, garage and showroom at Haverton Hill Road for Miller and Gordon, Ltd., Little Woolton Street, Liverpool.

Stoke Newington.—L.C.C. planning permission sought for flats and maisonnettes and petrol filling station at 314-322 Seven Sisters Road and Methodist Church, for which the architects are Bryan and Norman Westwood and Partners, 21 Suffolk Street, London, S.W.1.

Stoke-on-Trent, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of an out-patients' department at North Staffs. Royal Infirmary, estimated cost £643,975; include in capital programme schemes for provision of separate screening rooms to cardiac department at the City General Hospital and replacement emergency theatre at North Staffs. Royal Infirmary, estimated cost £1,800 and £15,000, respectively.

Stourbridge, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of toilet facilities to X-ray department at Wordsley Hospital, estimated cost £900; include in capital programme, scheme for covered way to X-ray department at Wordsley Hospital, £6,000.

Sunderland, Dur.—James A. Jobling and Co., Ltd., are to start work in September on a £200,000 extension scheme at their Wear Glassworks. A contract has not yet been decided. The architects are L. J. Couves and Partners, Grainger Chambers, Hood Street, Newcastle upon Tyne; plans are being considered for the erection of a prefabricated church hall at Christ Church, estimated cost £6,500; Vaux and Associated Breweries, Ltd., Sunderland, are planning the erection of a club and car park at South Hylton. The firm's staff architect is N. H. Cox.

Corporation Planning Committee have approved plans for extension to Teachers' Training College.

R. Collins, St. Hilda Street, South Shields, is the architect for garage, showroom and workshop, Roker Avenue, for Dunns Garages (Sunderland), Ltd.

Surrey.—Welfare Committee have approved the erection of three old people's homes at Burpham. Estimated cost £185,040.

C.C. have approved extensions to the building and improvements to the heating system at Surrey County Staff Club. Estimated cost £3,700.

C.C. recommended to approve the provision of bathrooms, etc., in each of the Lodge Farm cottages at Norbury Park estate. Estimated cost £3,200.

Sutton, Surrey.—Co. Planning Committee have approved layout of the new fire station at St. Dunsian's Hill.

Sutton and Cheam, Surrey.—B.C. plan the erection of a youth centre on the community centre site in Sutton Common Road.

Swansea.—J. Korbel, Carlyle and Partners, 54 Mansel Street, Swansea, are the architects for the erection of a multi-storey car park at The Kingsway, for the Virginia Motor Co.

Thornaby-on-Tees, Yorks.—Tarren and Callar, 24 Front Street, Sedgfield, prepared plans for bakery extension in Thornaby Road for J. Hamilton; R. Cowan, 20 Finkle Street, Stockton, is the architect for workshop extensions in Mann Street for D. G. Wiggins (Engineers), Ltd.; W. and M. Pumphrey, Ltd., Archer Street, propose car showrooms and service station in Mandale Road. Outline plans are being considered by the planning authority.

Tiverton, Devon.—Co. E.C. have approved scheme for the erection of new buildings and extensions at Heathcoat County Primary and Infants' School. Estimated cost £20,330.

Tottenham, Middx.—B.C. have approved plans for extensions to the men's dressing and clothes storage accommodation at the Lido swimming pool. Estimated cost £2,092.

Tynemouth, Northumb.—Borough Engineer has prepared a scheme for the erection of a new transport and cleansing depot between East Percy Street and Northumberland Street, North Shields; B.C. considering the erection of swimming baths at Brock Farm; Wood and Pigs, 17a Northumberland Square, North Shields, are the architects for filling station, garage, workshop, showroom and office accommodation on the Coast Road extension for D. F. Carr; John T. Bell and Sons, Market Street, Newcastle upon Tyne, are seeking permission to erect a block of lock-up shops with flats above on the Marden Farm estate, Cullercoats; plans have been prepared for alterations and additions to the Education Offices and tenders will be obtained shortly; additions are proposed to Foots Buildings, North Shields, for Foots, Ltd.; Borough Engineer to prepare a scheme for reconstructing the ice factory quay, North Shields. Cussins, Ltd., The Drive, Gosforth, are to pay £12,000 for land at East Street for the erection of multi-storey flats and ancillary amenities. Detailed plans for the developments have still to be prepared.

Wallington, Surrey.—C.C. recommended to approve the provision of a welfare centre school clinic at Filstone, Woodcote Road. Estimated cost £23,658.

Walton and Weybridge, Surrey.—Ministry have approved the provision of wash hand basins in 577 pre-war Council houses for U.D.C.

U.D.C. to prepare plans for an indoor swimming pool with parking accommodation at Elm Grove recreation ground, King's Road. Estimated cost £100,000.

Wandsworth.—B.C. recommended to approve acquisition of the site of 376-382 Upper Richmond Road for provision of proposed Putney swimming bath.

Wandsworth.—L.C.C. planning permission sought for residential development at The Priory, Upper Richmond Road, to plans submitted by Gerald Eve and Co., 6 Queen Street, London, W.1.

Warwick.—Birmingham Regional Hospital Board recommended to approve in principle, second phase of scheme to provide staff canteen and recreation hall facilities at Warwick Hospital. Estimated cost £6,690.

Wellingsborough, Northants.—M. S. Illingworth of Cook and Cullen and Illingworth, Nelson Chambers, Meeting Lane, Kettering, is the architect for the construction of an abattoir for Saxby Bros., Ltd., Melton Works.

West Bromwich, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme to provide a covered way to the children's ward at Hallam Hospital. Estimated cost £9,475.

West Bromwich, Staffs.—B.C. recommended to apply for sanction to borrow £6,350 for structural alterations at Shenstone Lodge Residential Special School.

Westminster.—L.C.C. town planning permission is being sought for 22-storey office buildings at 22-40 Victoria Street and 6-8 The Broadway, for which the architects are Chapman, Taylor and Partners, Grand Buildings, Trafalgar Square, London, W.C.2.

West Molesey, Surrey.—C.C. recommended to approve the provision of a welfare centre/school clinic at The Forum. Estimated cost £21,865.

Weston-super-Mare, Som.—B.C. have approved the provision of a new dance floor at the Winter Gardens Pavilion. Estimated cost £1,000.

Whickham, Dur.—U.D.C. considering the provision of swimming baths at Dunston.

Whitburn, West Lothian.—Dunlop Rubber Co. (Scotland), Ltd., 46/78 North Wallace Street, Glasgow, C.4, have applied for planning permission to erect a store on a four-acre site.

Whitstable, Kent.—South East Metropolitan Regional Hospital Board recommended to approve the appointment of J. C. Clague, 144 High Street, Herne Bay, as architect for a new casualty department at Whitstable and Tankerton Hospital.

W'eton, Cumb.—Additions are proposed to the girls' section at The Friends' School, Brookfield. Estimated cost £17,000.

Willesden, Middx.—C.C. recommended, subject to loan consent and planning permission, to approve scheme for sanitary accommodation improvements at Furness Primary Schools. Estimated cost £8,000; erection of an art room, needlework room, and adaptation of an existing room into science laboratory at Gibbons Secondary School, £12,955; and reconstruction of sports ground at Dollis Hill Lane, for use by the John Kelly Secondary Schools, £10,720.

Winchester, Hants.—C.C. recommended to approve schemes for the erection of an office for the divisional surveyor and a fuel store

at new road depot and provision of new garage accommodation at the fire station; estimated cost £2,950 and £7,600, respectively; bills of quantities in hand for extension of the boys' county secondary school to five-form entry.

Woking, Surrey.—F. J. Broadbent and Partners, 13 Manchester Square, London, W.1, are the architects for the erection of a church at Kingfield for the Roman Catholic Parish of St. Dunstons. Scheme not yet out to tender.

Wolverhampton, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle schemes for modernisation of Dartmouth and McLaren Wards and interim adaptations to the X-ray department at the Royal Hospital and provision of new corridors and a lift for psychiatric and geriatric wards at New Cross Hospital. Estimated cost £29,700, £16,650 and £13,600, respectively.

Worcester.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the provision of a patients' sitting room at Newtown Hospital. Estimated cost £880.

DEMOLITION

Nottingham.—City Council recommended to approve the demolition of bridge 12, Nottingham Canal, Old Coach Road. Estimated cost £800.

ELECTRICAL

Edgware, Middx.—C.C. recommended to approve electrical works at Redhill House. Estimated cost £1,880.

Rugby, War.—B.C. recommended to approve in principle scheme for the installation of traffic signals at Warwick Street/Dunchurch Road junction.

Stourbridge, Worcs.—Birmingham Regional Hospital Board recommended to include in the capital programme scheme for the provision of two lifts at Wordsley Hospital. Estimated cost £12,000.

Worcester.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the provision of a sub-station and distribution mains at Powick Hospital. Estimated cost £22,500.

FENCING

Croydon, Surrey.—E.C. propose the fencing of land at St. Andrews School, Duppas Hill. Estimated cost £14,000.

Middlesbrough, Yorks.—Borough Engineer recommended to prepare schemes for provision of fencing to house gardens in the Grove Hill and Whinney Banks areas.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £2,500 for erecting wrought-iron fencing along the unfenced boundaries on site of playing fields at Lower Kersal.

GAS AND WATER SUPPLY

Aberdeenshire.—C.C. have approved a regional water scheme including a framework of 275 miles of mains. Estimated cost £3,715,000.

Aberdeenshire.—Finance Committee have approved plans for a regional water scheme. Estimated cost £3,700,000. The plans include £200,000 for additional piping from the scheme's intake at Huntly to Gorse Gight, near New Deer.

Birmingham.—City Council recommended to apply for sanction to borrow £120,000 for laying of 4,400yd. of 24in. water main from Parsons Hill to Yardley Wood Road to improve the supply in the Northfield zone.

Carlisle, Cumb.—City Council recommended to apply for sanction to borrow £12,500 for water mains extensions on housing estates.

Mansfield, Notts.—B.C. recommended to apply for sanction to borrow £1,650 for extension of water mains at West Bank estate.

Morley, Yorks.—B.C. recommended to apply for sanction to borrow £2,400 for replacement of water main in Dewsbury Road, Churwell.

Nelson, Lancs.—B.C. recommended to apply for sanction to borrow £2,000 for provision of water mains and services in new residential property.

Pembrokeshire.—Prescely Water Board are to consider scheme for the construction of an 8,000,000-gallon storage reservoir at Diamond Hill, near Haverfordwest.

Tunbridge Wells, Kent.—B.C. recommended to apply for sanction to borrow £10,146 for the provision of water mains to serve part III of the Sherwood estate extension.

Worcester.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the provision and installation of a fire pump at Powick Hospital. Estimated cost £2,400.

Worthington, Cumb.—B.C. recommended to apply for sanction to borrow £1,810 for laying water main and provision of services on the Laverock Hall estate.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Belfast.—Harbour Commissioners propose a new deep-water quay and repairs to Dufferin and Spencer docks. Estimated cost £1m.

HEATING AND VENTILATING

Eastcote, Middx.—C.C. recommended, subject to loan consent and planning approval, to approve conversion of heating system and extension of kitchen at St. Michael's Residential School for Physically Handicapped Boys. Estimated cost £6,700.

Lowestoft, Suffolk.—East Anglian Regional Hospital Board have appointed Boardman and Son, Queen Street, Norwich, as architects, for air conditioning of main operating theatre at Lowestoft and North Suffolk Hospital.

Manchester.—City Council recommended to apply for sanction to borrow £5,425 for temporary provision of heating and electric power to control tower block at Manchester Airport.

Middlesex.—C.C. recommended to approve the installation of immersion heaters in school caretaker's dwellings. Estimated cost £3,235.

Stamford, Lincs.—East Anglian Regional Hospital Board recommended, subject to Ministry approval, to authorise the preparation of working drawings and bills of quantities for the centralisation of boiler plant and services at Stamford and Rutland Hospital. Estimated cost £45,000.

Surbiton, Surrey.—B.C. have approved the installation of an oil-fired boiler in the Council Offices. Estimated cost £1,084.

Uxbridge, Middx.—B.C. have approved scheme for installing 174 immersion water heaters in old people's bungalows. Estimated cost £1,219.

Warwick.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the reorganisation of the engineering services, the provision of a central steam boiler house and resiting the laundry at Warwick Hospital. Estimated cost £337,000.

HOUSING SCHEMES

Aberaeron, Cards.—R.D.C. propose the erection of 50 houses, 20 at Llanon, eight at Gilla-chreda, eight at Llanwnen, six at Talsarn and six at Cwrtnewydd.

Birmingham.—City Council propose the erection of 1,642 dwellings on new suburban sites, 388 within redevelopment areas and 69 on existing sites, 50 shop units and 2,250 lock-up garages during 1961. Estimated cost £3,377,675.

Bridport, Dorset.—B.C. recommended to approve plans for eight flats, 14 houses, four shops with two flats above and eight garages at Skilling housing estate.

Camberwell.—L.C.C. town planning permission is being sought for 23 houses and four eight-storey blocks of flats proposed at 1-13 Dulwich Wood Park, 20-30 Farquhar Road and 146 College Road, by Wates, Ltd. The architects are Austin Vernon and Partners, 5 Buckingham Place, London, S.W.1.

Chelmsford, Essex.—B.C. recommended to appoint S. Bragg, 119-121 High Street, Witham, Essex, as architect for the erection of old people's flats at Melbourne Avenue.

Chester.—City Council recommended to approve plans and invite tenders in due course from selected contractors for the erection of three blocks of 11-storey flats, four blocks of four-storey flats and maisonnettes, and two three-storey blocks of houses, maisonnettes and flats, and two two-storey blocks of flats, including six shops and car ports, at Newton redevelopment area.

Coventry.—Final drawings are being prepared and a contract is expected shortly for the erection of an 11-storey block of flats, surrounded by three- and four-storey flats and maisonnettes, at Coventry, for the Townsend Development Group. The scheme, known as the Kenilworth Court, has been designed by G. R. Stone, consultant architect to the agents, Cartwright and Son, Coventry. Leonard and Grant, 171 Victoria Street, London, S.W.1, are the consulting engineers. Estimated cost £450,000.

Durham.—City Council have approved proposals by William Leech (Builders), Ltd., St. James Street, Newcastle upon Tyne, for the erection of 71 pairs of semi-detached houses and eight detached houses at Framwellgate Moor.

R. E. Coleman, Ltd., 63 Western Hill, are seeking permission to carry out housing developments on 18 acres of land at White House Farm, Witton Gilbert, and 19 acres at Grange Row, Carrville.

Eccles, Lancs.—B.C. Planning Committee have approved the erection of 22 semi-detached houses on land north of Grange Road, for K. Flitcroft, 2 The Retreat, Lumber Lane, Worsley.

B.C. recommended to approve layout plans for erection of 18 houses at Winton Grange, together with constructing roads and sewers and grass areas, and that subject to a satisfactory report from the Mineral Valuer, the

quantity surveyors, T. Sumner, Smith and Partners, 4 St. Ann's Square, Manchester, 2, be authorised to prepare bills of quantities and invite tenders.

Epsom and Ewell, Surrey.—B.C. recommended to approve the appointment of D. J. Bandle, 7 Station Way, Cheam, as quantity surveyor, for the Kingsway housing scheme, Ewell.

Falkirk, Stirlings.—Dean of Guild Court have approved the erection of 23 houses at Thornhill Development for B.C. Estimated cost £36,685.

Grangemouth, Stirlings.—B.C. propose to develop 54 acres at Bowhouse, including 300 houses, road and services.

Guildford, Surrey.—R.D.C. have approved plans for 64 houses and bungalows at Fairlands estate, Worplesdon.

Co. Planning Committee have approved scheme for the erection of flats, including a 10-storey tower block between Portsmouth Road and the Mount, for B.C.

B.C. recommended to prepare plans for 24 one-bedroom flats fronting Boxgrove Avenue and London Road and conversion of 1 Wellington Place into three flats.

Hornsey, Middx.—B.C. recommended to approve layout for stage VI of the Campsbourne redevelopment area, comprising 40 dwellings, 25 lock-up garages and 15 parking spaces.

Ilford, Essex.—B.C. recommended to prepare detailed drawings for the erection of multi-storey flats at The Glade (stage III) and Oaks Lane estate. Estimated cost £146,740 and £136,740.

Leeds.—City Council recommended to invite tenders for erection of 172 dwellings off Raynville Road and on the Seacroft (Brooklands) estate and 16 ageing persons' flats on the Brackenwood estate; to approve provisional layout plans for development of sites at Cardigan Lane, Moorside, Belle Isle and Gipton, including provision for erection of old persons' bungalows.

City Council recommended to appoint Ove Arup and Partners, 8 Fitzroy Street, London, W.1, structural engineers for erection of 16-storey point blocks of flats.

Lewisham.—B.C. recommended to invite tenders for 32 flats and 17 garages at Corona Road; approve development of sites at 28-56 Campshill Road by erection of 10 lock-up shops with flats and maisonnettes above.

Llanfyllin, Monts.—R.D.C. to prepare plans for the erection of 18 houses at Carrehghofa.

Morley, Yorks.—B.C. recommended to approve plans for layout of 58 semi-detached bungalows off Rein Road, West Ardsley, for Lindley Bros., Ltd., Commercial Street.

Manchester.—Housing Committee to submit for planning approval, proposals for the erection of 15 dwellings on land south of Wood Street shopping sub-centre, Langley estate.

Mansfield, Notts.—B.C. recommended to approve plans for 22 houses at Gas Hill and Crow Hill, Pleasley Hill.

Nuneaton, War.—B.C. recommended to appoint F. Gibberd, 8 Percy Street, London, W.1, as architect, for the erection of a block of flats at Bottrell Street; approve scheme for 87 houses, 57 garages and garage spaces at Wood Farm housing estate.

Oxford.—City Council recommended outline plans for the erection of a block of 44 flats with rear car park at corner of Lydon Road and Lyndworth Close, for J. A. Pye, Ltd., 489 Marston Road, Oxford.

St. Marylebone.—B.C. recommended to invite tenders for erection of about 150 flats on Mulready Street site from contractors specialising in the design and construction of housing estates by non-traditional methods.

Scarborough, Yorks.—Borough Engineer has prepared a scheme for the redevelopment of housing sites at the Whitehead Hill and St. Mary's Street areas.

Stanley, Dur.—Eltrincham and Lowes, Derwent Street, Blackhill, have prepared plans for a private housing scheme at Ewehurst Crescent, Dipton.

Sunderland, Dur.—Page, Son and Hill, 75 King Street, South Shields, have prepared plans for the erection of another 20 houses on the Strawberry Farm estate for R. G. Finlay, Ltd.

R.D.C. to build about 100 old people's bungalows on sites at Castletown, South Hylton, Silksworthy, Ryhope, Tunstall and New Herrington.

Sutton and Cheam, Surrey.—Co. Planning Committee have granted permission for 16 old people's homes at the rear of the Rectory, Malden Road, Cheam, for B.C.

Thornaby-on-Tees, Yorks.—B.C. to purchase land at Thornaby airfield for housing and industrial purposes. Cost will be £198,000.

Walton and Weybridge, Surrey.—Ministry have approved U.D.C.'s housing programme, comprising 80 units of accommodation.

Wandsworth.—L.C.C. town planning permission is being sought for nine-storey flats proposed at 19 Westleigh Avenue, for which the

architects are Andrews, Emmerson and Sherlock, 63 Dean Street, London, W.1.

Weardale, Dur.—R.D.C. planning the erection of 24 old people's bungalows.

West Lothian.—Housing Committee have approved draft layout plan for first 500 houses of the new town being built at Blackburn.

Willesden, Middx.—B.C. have appointed J. C. Bianco, 239 Shaftesbury Avenue, London, W.C.2, and E. A. Pearce and Partners, 28 Baker Street, London, W.1, respectively, as consulting engineers for the reinforced concrete and electrical work for 142 dwellings at Cinema site, South Kilburn redevelopment. Emberton, Franck and Tardrew, 17 Chantry House, Eccleston Street, London, S.W.1, are the architects for the scheme.

Woking, Surrey.—U.D.C. have approved plans for nine blocks of six terraced houses, 54 garages, 14 semi-detached houses and garages with roads and sewers at Temple Bar, Hermitage Road, St. John's, for W. Deakin and Co., 20 Guildford Road.

Workington, Cumb.—B.C. recommended to ask Thomas Armstrong, Ltd., John Twiname, Ltd., Gregory Housing, Ltd., and The Homeville Co., Ltd., to submit a scheme for erection of 200 houses, including site preparation and construction of necessary roads and sewers.

PLANT AND MECHANICAL TRANSPORT

Nelson, Lancs.—B.C. recommended to purchase a David Brown 950 tractor and mechanical loader. Estimated cost £1,270.

PLAYING FIELDS, PARKS, ETC.

Barry, Glam.—B.C. recommended to prepare detailed scheme for the redevelopment of Weston Square children's playground area.

Beddington and Wallington, Surrey.—B.C. recommended to approve plans for making-up Great Woodcote Park and Church Road (part); approve in principle scheme for the improvement of Croydon Road; prepare plans for making-up of Alington Grove (part).

Birmingham.—City Council recommended to approve, subject to Ministry approval, schemes for layout of Lyndon End House recreation ground, Sheldon, and improvement of tennis courts at various parks. Estimated cost £19,250 and £10,384 respectively.

Ealing, Middx.—B.C. recommended to appoint W. R. Davidge and Partners, Abbey House, Victoria Street, London, S.W.1, as consultants, for grading and seeding of Marnham's Field and land at rear of Bridge Avenue; submit to C.C. for approval, scheme for laying out the grounds of Northolt Park Infants' School. Estimated cost £1,600.

Leeds.—City Council recommended to authorise expenditure of £7,700 for landscaping work, tree planting, etc., on the Intake Lane estate.

Mitcham, Surrey.—B.C. recommended to apply for sanction to borrow £9,200 for stage 1 of the Cannons development scheme.

North Mims, Herts.—Parish Council recommended to apply for sanction to borrow £1,500 for improving Bradmore Green in Brookmans Park shopping centre.

Potters Bar, Middx.—C.C. recommended subject to loan consent and planning permission, to approve the construction of a Redgra pitch at Mount Grace Secondary School, Lower School (Parkfield). Estimated cost £2,920.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £5,400 for playing field development at Summerville County Primary School.

ROADS, BRIDGES AND SITE WORKS

Bagshot, Surrey.—C.C. recommended to prepare plans for the making-up of Macdonald Road, Windermere Road, Scotts Grove Close, Grosvenor Road and Connaught Road.

Barnes, Surrey.—B.C. recommended to approve, subject to the approval of all authorities concerned, scheme for first stage of improvement at the junction of Upper Richmond Road with Roehampton Lane, Rocks Lane and Queen's Ride. Estimated cost £25,000.

Birmingham.—City Council recommended to approve, subject to Ministry approval, scheme for road works at unit 307, Lee Bank. Estimated cost £13,045.

Carlisle, Cumb.—City Council recommended to approve the construction of a roundabout at the Edinburgh-Glasgow Road junction, Kingstown. Estimated cost £3,500.

Chelmsford, Essex.—B.C. recommended to approve plans for making-up of Bradford Street.

Cobham, Surrey.—C.C. to prepare plans for the improvement of the London-Portsmouth trunk road, A.3, between Vine House and the Savoy Cinema.

Dunbar, East Lothian.—Associated Portland Cement Manufacturers, Ltd., Portland House, Tolith Street, Westminster, London, S.W.1, propose opencast lime mining at Oxwell Mains. Estimated cost between £4m. and £5m.

Esher, Surrey.—U.D.C. have approved the construction of a bus bay outside the Council offices. Estimated cost £3,500.

Farnborough, Hants.—C.C. recommended to approve, for grant aid, U.D.C.'s revised scheme for the improvement of road A.325, from Clockhouse roundabout to the cross-roads at Pinehurst Avenue, by the provision of dual carriageways. Estimated cost £40,000.

Gateshead, Dur.—B.C. have approved, in principle, the construction of roads and sewers, etc., on land at East Gateshead recently transferred to the B.C. by the Board of Trade.

Godstone, Surrey.—C.C. recommended to prepare plans for the making-up of Woodhurst Park Road and Wilderness Road, Oxted, Furzefield Road, Limsfield and New Road, Burstow.

Guildford, Surrey.—B.C. recommended to apply to Ministry for permission to invite tenders for the construction of the link road and extension of estate road No. 1 at Woodbridge Meadows industrial estate, estimated cost £8,000; approve scheme for widening Upper High Street, between Chertsey Street and the Municipal Offices, including the demolition of the necessary properties, £12,000.

C.C. recommended to prepare plans for making-up of Christmas Pie Avenue, Normandy; approve scheme for the improvement of Sweetwater Lane, Shamley Green. Estimated cost £6,150.

Hambledon, Surrey.—R.D.C. have applied for sanction to borrow £4,425 for construction of Cranleigh car park.

Horley, Surrey.—C.C. recommended to prepare plans for the making-up of Michael Crescent, Upheld, Crescent Way, The Crescent, and The Drive.

Hornsey, Middx.—B.C. recommended to prepare plans for widening Wood Lane; approve in principle and submit to C.C. for approval, scheme for the provision of bus bays in Muswell Hill Road near the junction at the Woodman.

Inverness.—City Council have been recommended to submit plans to the Scottish Home Department for the widening of Bridge Street, estimated cost £13,500, and the widening of Young Street and part of Tomnahurich Street, £12,500.

Works Committee recommend that a consultant be appointed to investigate the cost of constructing a flyover at Millburn.

Leatherhead, Surrey.—M.O.T. and C.C. approved scheme for widening carriageway and provision of drainage and lay-bys on Hawks Hill from Ashstead Lodge to the Epsom boundary, for U.D.C.

Leeds.—City Council recommended to authorise expenditure of £31,900 for construction of roads, sewers, garages and forecourts and landscaping and site preparation work on the Wyther Hostel site off Armley Ridge Road including demolition of the hostel.

Liverpool.—City Council recommended to authorise City Engineer to carry out repaving of Edge Lane and Edge Lane Drive, between Botanic Road and Mill Lane, following abandonment of tramways. Estimated cost £57,067.

Lyndhurst, Hants.—C.C. recommended to approve, subject to grant aid, scheme for the construction of a new road at Lyndhurst. Estimated cost £42,000.

Lymington, Hants.—C.C. recommended to approve, for grant aid, B.C.'s scheme for improvement of B.3058 Station Road, New Milton, between Osborne Road and Spencer Road. Estimated cost £13,800.

Manchester.—City Council recommended to invite tenders for construction of roads and sewers at Glossop (Chapel Lane, Hadfield) overspill site.

City Council recommended to apply for sanction to borrow £19,800 for construction of roads and sewers, Royle Green Road, Northenden, stage 2, and £5,200 for improvement of Burnage Lane.

Merton and Morden, Surrey.—C.C. have approved, in principle, U.D.C.'s outline scheme for the elimination of the level crossing in Kingston Road, Merton, by the construction of a roundabout at the junction of Hartfield Road and Dorset Road and for the raising in level of the railway to enable the latter to be carried over the roundabout by means of bridges.

Middlesbrough, Yorks.—B.C. recommended to approve scheme for making-up following private streets: Bilsdale Road (Hutton Road to Lansdowne Road), estimated cost £1,379; Kildale Road (Lansdowne Road to East End), £630; Ingleby Road (Longlands Road to Bilsdale Road), £1,027; Lansdowne Road (Highfield Road to Bristow Road), £4,985; Roseberry Road (Longlands Road to 60ft. south of Highfield Road), £3,175; Highfield Road (Lansdowne Road to East End), £2,576; Hutton Road (Trenholme Road to Highfield Road), £3,920; Farnedale Road (Lansdowne Road to 188ft. east of Marton Road), £2,438; Bristow Road (Lansdowne Road to Belle Vue Grove), £1,230.

B.C. recommended to apply for sanction to borrow £20,000 for Ormesby Road improvement.

Middlesex.—C.C. recommended to approve, subject to M.O.T. grant aid, schemes for resurfacing Church Road, from Ruislip Road to Western Avenue, super elevate and resurfacing Yeading Lane from Willow Tree Lane to Ruislip Road, and improvement of High Street, Yiewsley, by St. Matthews Church. Estimated cost £6,080, £14,850 and £4,385, respectively.

Milford, Surrey.—C.C. recommended to approve scheme for the improvement of Chapel Lane, from junction with the A.3 to the A.3100 junction. Estimated cost £8,950.

Mitcham, Surrey.—B.C. recommended to apply for sanction to borrow £2,440 for making-up Raleigh Gardens.

B.C. recommended to prepare specification, etc., for making-up Arneys Lane and Drake Road.

Newcastle upon Tyne.—City Airport Committee have submitted to the Ministry plans for extending Woolston Airport.

Nottingham.—City Council recommended to apply for sanction to borrow £14,000 for the construction of a new road to serve offices and shops at west side of Trinity Square.

Penrith, Cumb.—U.D.C. to carry out further developments on the Wetheriggs housing estate, and the Surveyor (F. Birkbeck) is to prepare plans for the necessary roads, with a view to inviting tenders at an early date.

Perth and Kinross.—C.C. have approved a scheme for improving the Perth-Dundee road between Inchmichael and Longforan, estimated to cost £520,000, subject to one proviso—that a footbridge over the road between Baledgarno and Inchture be considered by the Scottish Home Department.

Portsmouth.—Hampshire C.C. recommended to approve scheme for the provision of a bus lay-by at Cowplain County Secondary School. Estimated cost £2,050.

Richmond, Surrey.—B.C. have approved plans for a car park in Old Deer Park.

St. Pancras.—B.C. recommended to provide a bus lay-by in Highgate Road by Swain's Lane. Estimated cost £4,250.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £15,000 for resurfacing various streets abutting upon housing redevelopment in the city.

Stoke-on-Trent, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle scheme for a new road between Queens Road and Ashlands Road to the out-patients' department at North Staffs. Royal Infirmary. Estimated cost £19,575.

Surrey.—C.C. have approved the submission to M.O.T., for approval, scheme for the construction of the Esher By-pass and a link road from the Scilly Isles to Round Hill. Estimated cost £3m.

Woking, Surrey.—U.D.C. recommended to approve revised scheme for a car park and extending the Wheatsheaf recreation ground on Boundary Road Common.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Basingstoke, Hants.—B.C. recommended to instruct Lemon and Blizard, consulting engineers, 59 Tufton Street, London, S.W.1, to prepare a scheme for laying a sewer down the valley as far as the eastern tip of the present sewage farm and erecting a temporary pumping station there with a rising main to the sewage farm, and improve matters on the farm on a temporary basis by putting in tanks to even out the flow.

Birmingham.—City Council recommended to approve, subject to Ministry approval, scheme for the provision of new surface water sewers to serve the Tame Road and Electric Avenue area, Witton. Estimated cost £44,280.

Buxton, Derbys.—B.C. recommended to prepare detailed plans for extending the sewer at Mill Cliff to serve additional properties.

Brackley, Northants.—C.C. recommended to approve in principle, R.D.C.'s sewerage extension scheme for Lower Middleton Cheney. Estimated cost £17,665.

Brixworth, Northants.—C.C. recommended to approve in principle, R.D.C.'s sewerage and sewage disposal scheme for Thornby. Estimated cost £14,600.

Carlisle, Cumb.—City Council recommended to approve in principle and apply for sanction to borrow £86,165 for Willowholme sewage disposal works reconstruction.

Chester.—City Council recommended to apply for sanction to borrow £132,360 for stage I of the re-design and reconstruction of Sealand Road sewerage disposal works.

Ealing, Middx.—B.C. recommended, subject to Ministry approval, to invite tenders for the construction of the third section of the Lammas Valley surface water sewer. Estimated cost £153,000.

Guildford, Surrey.—B.C. recommended, subject to Ministry approval, to invite tenders

for the piping-in of ditch adjacent to Stoughton recreation ground. Estimated cost £4,800.

Hay, Brecons.—U.D.C. have approved interim report on the provision of a sewerage works near Hay Station, with a pumping station at the mouth of Dulas Brook to serve the town and part of Cusop Parish.

Kendal, Westmor.—B.C. recommended to approve, for submission to the Ministry, scheme for renewals and additions at sewage disposal works. Estimated cost £111,070 and for permission to construct the new Oxenholme sewer.

Leeds.—City Council recommended to approve supply and fixing of a Broomwade type 245 EHV water cooled vacuum pump and 30-h.p. electric motor at refuse disposal station, Quarry Hill. Estimated cost £2,000.

Oxford.—City Council recommended to approve scheme for the renewal of sewers at Leckford Road, estimated cost £2,000; St. Giles', £1,000; Windmill Road, £2,000; and Church Way, Ilfey, £1,800.

Seaton Valley, Northumb.—U.D.C. seeking permission to use a site near East Hartford Farm, Cramlington, for sewage disposal works.

Wandsworth.—B.C. recommended to approve reconstruction of a sewer in Maskell Road. Estimated cost £5,000.

Weymouth, Dorset.—B.C. recommended to apply for sanction to borrow £18,000 for the provision of main drainage facilities in the Jordan Valley.

Workington, Cumb.—B.C. recommended to prepare a scheme for improvement of Siddick and Northside sewers.

STREET LIGHTING

Epsom and Ewell, Surrey.—B.C. to invite tenders shortly for erection and wiring of group A street lighting columns.

Guildford, Surrey.—B.C. recommended to apply for sanction to borrow £1,800 for installation of class B lighting in Park Barn, Palm Grove and Bushy Hill Drive.

Hertford.—B.C. recommended to apply for sanction to borrow £35,250 for the conversion of all existing gas street lamps to electricity and for improvement of street lighting in the town.

Nottingham.—City Council recommended to approve the provision of street lighting at Bramcote Lane housing estate, Wollaton, and improvements to lighting at Church Street (north), Alpine Street, Percy Street and Stockhill Lane. Estimated cost £1,900 and £1,060, respectively.

Southwark.—B.C. recommended to approve an estimate of £37,300 for the fourth stage of street lighting modernisation.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns.

BUILDING AND DECORATING

(See also Housing Schemes)

Aldridge, Staffs.—Erection of 62 garages on Leighwood estate, for U.D.C. Documents from James Mason, engineer and surveyor, The Poplars, 9 Leighwood Road, Aldridge. Deposit £2 2s. Tenders by Aug. 26.

Antrim.—Proposed new primary school and meals kitchen, Knockahollet, near Ballymoney, for Co. E.C. Documents from T. J. Dudley Lewis, 22 New Row, Coleraine. Deposit £5. Tenders by Aug. 24.

Aspull, Lancs.—Erection of combined public conveniences and bus shelter at Wigan Road, New Springs, for U.D.C. Documents from the Acting Engineer and Surveyor, Council Offices, Aspull. Deposit £3 3s. Tenders by Aug. 16.

Banbridge, Down.—Extension to cemetery, Newry Road, for Joint Burial Board, comprising: (a) construction of paths; (b) erection of six shelters; (c) one public lavatory and store; (d) additions to existing caretaker's cottage. The above work is to be carried out, together with all ancillary works. Documents from F. H. Wright and Partners, quantity surveyors, 79 Botanic Avenue, Belfast, 7. Deposit £3 3s. Tenders by Aug. 26.

Banbridge, Down.—Improvements and repairs to nine cottages situated at Loughbrickland Road, Scarva, for R.D.C., including the provision of water supply, sewerage, internal plumbing, alterations and repairs. Documents from I. G. McKinney, engineer and surveyor, Town Hall, Banbridge. Deposit £3 3s. Tenders by Sept. 3.

Barnstaple, Devon.—Exterior repainting of the following properties for R.D.C.: (Group 1) (a) Park Villas, Bishops Tawton, (b) The Square—15 houses; (2) (a) Pail Park, Knowle, Braunton, (b) Field Lane, Braunton—18; (3) South View, Braunton—22; (4) part of Highfield Gardens, Combe Martin—16; (5) part of Highfield Gardens, Combe Martin—17; (6)

(a) Brookside Cottages, Bickington, (b) part of Elmlea Avenue, Fremington—30; (7) Oxmans Cottages, Westleigh—eight. Order for the work to commence will be given to successful contractors by Sept. 5, and all work must be completed by Nov. 26. Documents from the Housing Manager, The Red House, Castle Street, Barnstaple. Tenders by Sept. 1.

Belfast.—Construction of a factory site, Dunmurry industrial estate, Belfast, for Ministry of Commerce. Documents from Room 28, Chichester House, 64 Chichester Street, Belfast. Deposit £3. Tenders by Aug. 25.

Bognor Regis, Sussex.—Improvements to houses, in three separate contracts for U.D.C.: (a) 47 houses in Collyer Avenue; (b) 40 houses in Hampshire Avenue and Gravits Lane; (c) 29 houses in Westloats Lane and Westloats Gardens. Documents from the Engineer and Surveyor, Town Hall, Bognor Regis. Deposit £2 2s. each. Tenders by Aug. 31.

Bromley, Kent.—Erection of a new gymnasium and changing room at Quernmore Boys' School for Education Committee. Applications from contractors having suitable experience of school contracts, details of which are to be submitted to the Borough Engineer, Municipal Buildings, Bromley, by Aug. 19. Tenders by Sept. 24.

Bury, Lancs.—Internal decoration of a portion of Brandleholme House, Beech Grove, and South View, for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Aug. 16.

Camelford, Corn.—Repainting the following for R.D.C.: (Contract a) four houses Davidstow and two houses Lesnewth; (b) eight houses St. Breward; (c) 36 houses Delabole; (d) 27 houses Camelford; (e) 14 houses Tintagel; (f) interior decorations council offices. Documents from R. R. Haylett, surveyor, Council Offices, Camelford. Tenders by Aug. 31.

Cardiff.—Alterations and additions to the seating accommodation in the Council Chamber, City Hall, for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheque payable to Corporation. Tenders by Sept. 6.

Cardiff.—Construction of a rescue training set at Caerau Lane, Ely, for City Council. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Aug. 18.

Cheshire.—Erection at the Astley County Grammar School for Girls, Yew Tree Lane, Dukinfield, of (a) an open-air swimming pool, 75ft. by 36ft., and (b) a covered pool, 75ft. by 36ft., for C.C. Tenders to the Chairman of the Governors, c/o Astley County Grammar School, Yew Tree Lane, Dukinfield.

Chorley, Lancs.—Construction of a strong room, reconstruction of one room approximately 420 sq. ft., together with other minor alterations and reconstructions to the Council Offices, Gillibrand Street, for R.D.C. Documents from the Surveyor, Council Offices, Gillibrand Street, Chorley. Deposit £3 3s., cheque payable to R.D.C. Tenders by Aug. 22.

Clun, Salop.—Roofing 1 and 2 Council Houses, Lea, near Bishop's Castle, for R.D.C. Documents from H. A. Elliott, clerk of the Council, District Council Offices, The Square, Bishop's Castle. Tenders by Aug. 19.

Conisbrough, Yorks.—Erection and completion initially of one Unity type community hall in Hickleton Street, Denaby Main, for U.D.C. Documents from C. Urch, engineer and surveyor, Council Offices, 5 High Street, Conisbrough. Deposit £2, cheque payable to U.D.C. Tenders by Aug. 19.

Conway, Caerns.—Supply and delivery only of six cantilever bus shelters, each approx. 15ft. in length, complete with heavy reinforced glazing. Tenderers desiring to quote an alternative price to include erection may do so. Tenders, giving full details, in plain sealed envelopes, endorsed "Bus Shelters," to R. Colin Greensmith, town clerk, Bodlondeb, Conway, by Aug. 19.

Cornwall.—Following sub-contracts for C.C.: (a) Structural steelwork, and (b) metal windows and doors in connection with the erection of a new county secondary school at St. Stephens-in-Brannel. Applications to the County Architect, County Hall, Truro, by Aug. 20.

Cosford, Suffolk.—Improvement to eight houses at Grotton Street, Edwardstone, and the construction of drains and a small sewage disposal works for R.D.C. Documents from the Surveyor, Council Offices, 32 High Street, Hadleigh, near Ipswich. Deposit £1 1s., cheque payable to R.D.C. Tenders by Aug. 22.

Deptford.—Redecoration works to post-war properties for B.C. Tenders by Aug. 31.

Dewsbury, Yorks.—Mass concrete retaining wall, Carlton Road Infants' School, for B.C. Deposit £2 2s. Tenders by Sept. 5.

Down.—Erection of a new child health clinic at Knocknee Avenue, Killeel, for County Health Committee. Documents from the County Planning Officer, English Street, Downpatrick, or from G. McNeill, chartered surveyor, 29 Wellington Place, Belfast. Deposit £3 3s. Tenders by Aug. 19.

Dundee.—Several building works for Step Row sub-station, Step Row, for North of Scotland Hydro-Electric Board. Documents from R. B. Anderson, area manager, Area Offices, 7 Dudhope Crescent Road, Dundee. Tenders by Aug. 18.

East Sussex.—Erection of Haywards Heath Further Education Centre for C.C. Applications to the County Architect, County Hall, Lewes, by Aug. 22.

Essex.—Additional classroom at Basildon The Moathouse E.S.N. School. The work will be in traditional construction, estimated cost £4,500. Applications to H. Conolly, county architect, County Hall, Chelmsford, by Aug. 13.

Evesham, Worcs.—Construction of 10 brick garages with asbestos and reinforced concrete roofs, on various sites together with necessary site works for R.D.C. Documents from the Engineer and Surveyor, Lansdowne, Porth Street, Evesham. Deposit £2 2s. Tenders by Sept. 3.

Gloucestershire.—Following at Shipton Hill, A.40, near Andoversford, for C.C.: (a) Taking down and re-erection of approximately 700 lin. yd. Cotswold dry stone walling and re-erection of gates; (b) grubbing up hedges, fencing, trees, supply and erection of approximately 240 lin. yd. of oak post and rail fencing and supply only of approximately 70 lin. yd. Documents from the County Surveyor, Quay Street, Gloucester. Tenders by Aug. 18.

Gosport, Hants.—Concrete bases to 100 garages for B.C. Deposit £2 2s.

Haverfordwest, Pembro.—Erection and completion of extensions to Newgate North public convenience, for R.D.C. Documents from Engineer and Surveyor, 8-10 Picton Place, Haverfordwest. Tenders by Sept. 9.

Hendon, Middx.—Following for B.C.: (a) Construction of the model yacht pond at Rushgrove Park, London, N.W.9; (b) construction of 12 in. diameter surface water relief sewers in Greyhound Hill and Hendale Avenue, London, N.W.4; (c) widening and improving of Parson Street, Hendon, London, N.W.4, from Ashley Lane to Great North Way. The contract comprises the construction of approx. 3,000 sq. yd. of 8 in. thick reinforced concrete carriageway surfaced with 2 in. thick hot rolled asphalt, together with kerbing, paving, drainage and other incidental works. Documents from the offices of the Borough Engineer and Surveyor, Town Hall, Hendon, by Aug. 15 for (a) and (c) and Aug. 22 for (b). Deposit £2 2s. each, cheques payable to Corporation. Tenders by Aug. 31 for (a); Sept. 5 for (b) and Aug. 29 for (c).

Heston and Isleworth, Middx.—Public convenience, Broadway, Hounslow, for B.C. Tenders by Sept. 10.

Heysham, Lancs.—Erection of a church at Middleton. Documents from Edgar Middleton, architect, 1 Queen Street, Lancaster.

Higham Ferrers, Northants.—Taking down an existing stone wall on the northern boundary of Chichele Close bungalows and replacing with a brick wall for B.C. Documents from the Borough Surveyor, Town Hall, Higham Ferrers. Tenders by Sept. 14.

Hornsey.—External redecoration of 116 flats (four four-storey blocks and three seven-storey blocks) at Hillcrest, North Hill, N.6, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, The Broadway, N.8. Tenders by Aug. 22.

Ilford, Essex.—New assembly hall and gymnasium at Mayfield Secondary School for Girls for B.C. Deposit £2 2s. Tenders by Aug. 23.

Ilford, Essex.—Erection of an extension to the existing metalwork room and the erection of two partitions in the dining block at Mayfield Secondary Boys' School, Goodmayes Lane, for B.C. Applications in writing to the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by Aug. 23.

Islington.—Demolition of an existing greenhouse at the Cemetery, East Finchley, London, N.2, and the construction of a new greenhouse for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Upper Street, London, N.1. Tenders by Aug. 23.

Lanarkshire.—Several works for Library, Newnains, which include the following for C.C.: Excavator, brick, concrete works; carpenter and joiner work; glazier work; plumber work; slater, roughcast and floor finish works; electrical work; painter work. Written applications to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by Aug. 13.

Lanarkshire.—Several works for Library, New Stevenston, which include the following for C.C.: Excavator, brick and concrete works; carpenter and joiner work; glazier work;

plumber work; bituminous felt roofing work; plaster and cement work; linoleum tile work; electrical work; painter work. Written applications to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by Aug. 13.

Lancaster.—Erection of four shops with living accommodation over, at Caton. Documents from Edgar Middleton, architect and surveyor, 1 Queen Street, Lancaster.

Larne, Antrim.—Exterior painting of 338 houses for B.C. Documents from R. Lytle, town clerk, Gardenmore House, Larne. Deposit £5 5s. Tenders by Aug. 24.

Lisburn, Antrim.—Erection and completion of a new assembly hall/classroom block at the Wallace High School, for Board of Governors. Documents from the office of Roe, Stevenson and Sons, quantity surveyors, 33 College Gardens, Belfast, 9. Deposit £5 5s. Plans seen at the offices of R. Ferguson and S. McIlveen, architects, 15 College Gardens, Belfast, 9. Tenders by Aug. 29.

Lurgan, Armagh.—Design, supply, fabrication and erection of structural steelwork for a factory extension at Lurgan, for Ministry of Commerce. Documents from Room 14, Chichester House, 64 Chichester Street, Belfast. Tenders by Aug. 19.

Luton, Beds.—Alterations to form chemist laboratory, Beech Hill Boys' School, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by Aug. 18.

Luton, Beds.—Following for B.C.: (a) Erection and completion of new stockroom, School Loans Department, Luton Museum (tenders by Aug. 23); (b) electrical installation, Chalfney C.S.M. School extension (tenders by Sept. 9). Documents from Borough Architect, Town Hall, Luton.

Maldon, Essex.—Internal decorations at the main office block at Council Offices, Wantz Road, for R.D.C. Contractors must inspect the premises and obtain all information required for estimating purposes and for the execution of the works. Forms of tender from L. H. Hiscott, clerk of the Council, Council Offices, Wantz Road, Maldon. Tenders by Aug. 20.

Manchester.—Extension to roof of toilets and installation of new urinal at Elysian Street Primary School, Openshaw, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 19.

Manchester.—Alterations to kitchen dining room and stores at St. Joseph's Police Buildings, Longsight, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 24.

Manchester.—Alterations to form school meals kitchen at Holy Trinity C. of E. School, Rusholme, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester, 2. Tenders by Aug. 26.

Manchester.—Alterations to kitchen, dining-room and stores at St. Joseph's Police Buildings, Longsight, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 24.

Melton Mowbray, Leics.—Following for U.D.C.: Exterior painting of Egerton Lodge; painting of poultry shed, Cattle Market. Documents from Engineer and Surveyor, Egerton Lodge, Melton Mowbray. Tenders by Aug. 22.

Middlesbrough, Yorks.—Erection of extensions to the Stainsby Secondary Schools including new buildings of approximately 8,500 sq. ft. with other alterations and ancillary works, for Education Committee. Applications to the Director of Education, Education Offices, Middlesbrough. Deposit £5 5s. Tenders by Sept. 3.

Middlesbrough, Yorks.—Erection of a children's home, Croft Avenue, for B.C. Deposit £2 2s. Tenders by Sept. 13.

Moir, Down.—Installation of plumbing and electrical work to 66 houses at Risk, for R.D.C. Documents from J. Deering, clerk to the Council, Rural District Council Office, Sloan Street, Lurgan. Tenders by Aug. 17.

Newbury, Berks.—Conversion of 106 Craven Road into four flats, for B.C. Documents from the Borough Surveyor, Municipal Buildings, Newbury. Tenders by Aug. 31.

Norfolk.—Erection of an old people's home at Aylsham, which will be a two-storey building, aggregate floor area 17,000 sq. ft., for C.C. Applications to the County Architect, 27 Thorpe Road, Norwich, by Aug. 19.

Northamptonshire.—First three-classroom instalments of the following primary schools for C.C.: Corby Exeter (load-bearing brickwork; Wellingborough Croxland Hall Farm estate (proprietary steel frame with traditional internal construction and finishes). Contractors wishing to tender for (a) erection; (b) heating, domestic hot and cold water installations, etc., or (c) electrical installation, from the County Architect, County Hall, Northampton, by Aug. 15.

Northern Ireland.—Construction of a library at Andersonstown for Housing Trust. Documents from the offices of the Trust, 12 Hope

Street, Belfast, 12. Deposit £3. Tenders by Aug. 17.

Northern Ireland.—Construction of eight garages at Lisburn (Tonagh) together with ancillary works for Housing Trust. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by Aug. 17.

Nottingham.—Extension and improvement of the Wilford Hill crematorium for City Council. Documents from R. M. Finch, city engineer and surveyor, The Guildhall, Nottingham. Deposit £2. Tenders by Aug. 26.

Oxford.—Structural and building work for the extension of changing accommodation at Hinksey Pools, for City Council. The works comprise the following: (a) Reinforced concrete foundations, columns and staircases; (b) brick superstructure in two storeys; (c) reinforced concrete deck beams and patent flooring; (d) safe and sanitary accommodation; and (e) perimeter railings. Applications to the City Engineer, Town Hall, Oxford.

Peterborough.—Extensions to Arthur Mellows Village College, Glinton, for Joint Education Board. Applications to the Surveyor to the Board, Town Hall, Peterborough. Tenders by Aug. 16.

Redditch, Worcs.—Waterproofing approximately 222 out-building roofs on the Batchley estate for U.D.C. Documents from the Housing Manager, Public Offices, Ludlow Road, Redditch. Tenders by Aug. 18.

St. Faith's and Aylsham, Norfolk.—Following for R.D.C.: (a) Improvement works to eight pre-war Council houses at Drayton; (b) roadworks at Sandpit Lane, Foulsham. Documents from the Housing Officer, Tudor Hall, Rose Lane, Norwich. Deposit £1 1s. each, cheques payable to R.D.C. Tenders by Sept. 5.

Shrewsbury, Salop.—Music hall alterations for B.C. Deposit £3 3s. Tenders by Aug. 31.

Slough, Bucks.—Erection of new hospital at Wrexham Park for North-West Metropolitan Regional Hospital Board. Apply by Aug. 29.

Stafford.—Erection of extension to the Central Library including two picture galleries of an approximate area of 6,200 sq. ft. for B.C. Documents from T. H. Higson, borough surveyor, Mount Street, Stafford. Deposit £2 2s. (cheques payable to Corporation). Tenders by Aug. 30.

Sandown-Shanklin, I. of W.—External painting and miscellaneous repairs to 104 houses, bungalows and flats in Sandown and Lake for U.D.C. Documents from the Surveyor's Office, Town Hall, Sandown. Deposit £2 2s. Tenders by Aug. 20.

Sutton-in-Ashfield, Notts.—Repairs to houses at Garden Lane, Spring Road, Martyn Avenue and Fireman's Row for U.D.C., comprising built-up felt roofing and general repairs to external coats and w.c.s and repairs and renewal of external rendering. Applications to Warner and Dean, architects and surveyors, Mansfield Road, Sutton-in-Ashfield, by noon, Aug. 22. Deposit £2 2s. (cheques payable to U.D.C.). Tenders by Sept. 13.

Swansea.—Erection of a sports pavilion at King George V Playing Fields for B.C. Applications to the office of the Borough Architect, The Guildhall, Swansea, by Aug. 18. Deposit £5.

Tyrone.—Erection and completion of Elish Primary School, Co. Tyrone, for Very Rev. A. C. McFeely, Strabane, Co. Tyrone. Documents from F. M. Corr and W. H. D. McCormick, chartered architects, 7 Ferryquay Street, Derby. Deposit £5 5s. Tenders by Aug. 23.

Wakefield, Yorks.—External repainting of 194 houses and bungalows on Craggstone estate for R.D.C. Documents from the office of the Council's Engineer and Surveyor, Council Offices, 18 St. John's North, Wakefield. Tenders by Aug. 17.

Warminster, Wilts.—Alteration and decoration of the Water Board offices at 55 Boreham Road, contract 2, for West Wilts. Water Board. The work, consisting of internal and external decorations together with minor structural alterations, will not be required to commence before Nov. 1. Documents from the Engineer and Manager, 55 Boreham Road, Warminster. Tenders by Sept. 5.

Welwyn, Herts.—Following for R.D.C.: (a) Internal decoration of Council offices; (b) external painting of 36 aluminium bungalows. Documents from the Council's Surveyor, Council Offices, By-Pass Road, Welwyn. Tenders by Aug. 22.

Workshop, Notts.—Alteration and addition to part of premises, 8 and 10 Potter Street, to form public offices and Mayoral Chambers for B.C. Documents from the Borough Engineer, Park House, Workshop. Deposit £3 3s. Tenders by Sept. 12.

CLOTHING AND TEXTILES

Isle of Ely.—Demolition of 1 Minster Place, Ely, together with the making good of, and the provision of any necessary shoring to, the

party and boundary walls, for C.C. Documents from the County Surveyor, County Hall, March, Cambs. Tenders by Aug. 29.

Mansfield, Notts.—Supply of uniforms and protective clothing to the several departments for B.C. Documents from the Town Clerk, Carr Bank, Mansfield. Tenders by Aug. 31.

Sunderland, Dur.—Demolition of 75 properties, Deptford area, for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 ls. Tenders by Aug. 16.

DEMOLITION

***Bath.**—Snow Hill redevelopment for City Council. Apply by Aug. 20. Deposit £2 2s.

Bury, Lancs.—Demolition of 59-67 Crostons Road and 1-11 Wyke Street, for B.C. Documents from the Borough Engineer's Office, Town Hall, Bury. Tenders by Aug. 15.

***Chorley, Lancs.**—Demolition works for B.C. Deposit £2 2s. Tenders by Aug. 20.

***Hertfordshire.**—Demolition of property for C.C. Tenders by Aug. 17.

Morley, Yorks.—Demolition and site clearance of the property known as 3, 4, 5, 6 and 7 Troy Hill Side, for B.C. Documents from the office of the Borough Engineer, Town Hall, Morley. Tenders by Aug. 17.

Sowerby Bridge, Yorks.—Demolition of property at Towngate, Sowerby, for U.D.C. Documents from the Engineer and Surveyor, Beech Royd, Beech Road, Sowerby Bridge. Tenders by Aug. 18.

Torquay, Devon.—Demolition of Melville Lane clearance area for B.C. Written applications to the Borough Engineer, Town Hall, Torquay. Tenders by Aug. 22.

***West Ham, Essex.**—Demolition and clearance of properties for B.C. Deposit £2. Tenders by Aug. 17.

ELECTRICAL

***Breconshire.**—Electrical installations at new Council chamber for C.C. Apply by Aug. 31.

Down.—Supply and installation of a lift at St. Leonard's Rehabilitation Centre, Warrenpoint, for County Welfare Committee. Applications to the County Planning Officer, English Street, Downpatrick. Tenders by Aug. 19.

***Durham.**—Supply and delivery of meter pumps and petrol storage tanks for County Police Authority. Tenders by Aug. 19.

Manchester.—Electrical installation to workshop at Heaton Park, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 19.

Newcastle upon Tyne.—Supply and installation of two automatic passenger lifts in each of the seven 15-storey blocks of flats, as follows, for City Council: One block at Pottery Bank; six blocks at Scotswood Road (Hawes Street). Applications, in writing, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Tenders by Aug. 31.

Peterborough.—Electrical installation at new 36-bed home for the aged, Alderman's Drive, Peterborough, for C.C. Applications to the architects, Warwick and Ellis, 43a Priestgate, Peterborough. Deposit £2 2s. Tenders by Aug. 29.

Plymouth.—Alteration and improvement to the lighting installation at the city abattoir, Prince Rock, for City Council. Documents from J. Ackroyd, city engineer and surveyor, The Guildhall, Plymouth. Deposit £3 3s. (cheques payable to the Corporation). Tenders by Aug. 18.

Sunderland, Dur.—Electrical installation to central library and museum extensions and alterations for B.C. Documents from the Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by Aug. 22.

FENCING

***Ilford, Essex.**—Fencing to parks and cemeteries for B.C. Deposit £2 2s. Tenders by Aug. 23.

Inverness.—Supply and fixing of wire mesh protective fencing in Huntly Street, for B.C. Documents from the Burgh Surveyor, Town House, Inverness. Tenders by Sept. 17.

Manchester.—Davylhulme sewage works—supply and erection of approximately 3,400yd. of 5ft. 6in. high prefabricated prestressed concrete post and pale fencing for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Aug. 29.

GAS AND WATER SUPPLY

Ballymena, Antrim.—Water main extensions at Shoptown and Carnaghts, contract 17, for R.D.C., including the supply, distribution, laying and jointing of approx. 620 lin. yd. of 3in. diameter spun-iron pipes and specials and approx. 380 lin. yd. of 2in. diameter asbestos-cement pipes and specials. The proposed works are situated to the east and south-east of Ballymena. Documents from the offices of R. Ferguson and S. McIlveen, consulting engi-

neers, 15 College Gardens, Belfast, or at the offices of the Council, Cushendall Road, Ballymena. Deposit £5 5s. Tenders by Aug. 19.

***Cardiff.**—Llandegfedd water scheme, for City Council. Apply by Aug. 22.

Lanarkshire.—Following for C.C. and Motherwell and Wishaw B.C.: Construction of a 7,500,000 gallon reinforced concrete covered clear water reservoir at Greenhill, near the village of Hareshaw, Lanarkshire. The works also include pipelaying, drainage, and access road construction. Documents from the offices of F. A. Macdonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C3. Deposit £5. Tenders by Aug. 25.

Limerick, Eire.—Construction of new water mains of 9in., 6in. and 4in. diameter at various sites, for City Council. Documents from C. Stenson, city engineer, Arus na Cathrach, Limerick. Deposit £10. Tenders by Aug. 22.

Londonderry.—Supplying and laying of approximately 1,160 lin. yd. 6in. diameter asbestos-cement pipe, together with ancillary works at Prehen, for R.D.C. Documents from the office of the Londonderry Rural District Council, or the office of W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast, 9. Deposit £5 5s. Tenders by Aug. 23.

Maldon, Essex.—Supply and laying of approx. 1,560yd. of 3in. dia. asbestos-cement water main, together with valves, hydrants, etc., for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Wantz Road, Maldon. Deposit £2. Tenders by Aug. 16.

Manchester.—Supply and installation of swimming bath filtration plant, etc., for the Whitworth Baths, Ashton Old Road, for City Council. Applications to the General Superintendent, Baths and Laundries Department, P.O. Box 488, Town Hall, Manchester, 2. Tenders by Aug. 27.

Midhurst, Sussex.—Construction of a pumping station, installation of pumps, and the construction of short lengths of cast-iron link main, together with ancillary works, at Easebourne and Henley, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Midhurst. Deposit £1 ls. Tenders by Sept. 5.

Newmarket, Cambs.—Reinforcement of supply to Cheveley and Ashley, for R.D.C., including the laying of approximately 954 lin. yd. of 4in. diameter and 333 lin. yd. of 6in. diameter cast-iron water main with Tycot joints. Documents from M. E. Moore, engineer and surveyor, Council Offices, Park Lane, Newmarket. Deposit £2. Tenders by Sept. 1.

***Newport, Mon.**—Construction of mass concrete foundations, etc., for B.C. Tenders by Aug. 29.

Newry, Down.—Regional water scheme extensions for R.D.C., as follows: Contract A—the supply, laying and jointing of approximately 6,750 lin. yd. 3in. dia. cast-iron pipes, valves and specials; 1,950 lin. yd. 2in. diameter asbestos-cement pipes, valves and specials, and all ancillary works. The works are situated at Clonallon, Cloughenrammer-Lisduff, Greenan and Fourtowns. Contract B—the supply, laying and jointing of approximately 600 lin. yd. of 4in. dia. cast-iron pipes, valves and specials; 7,840 lin. yd. of 3in. diameter cast-iron pipes, valves and specials; 1,530 lin. yd. of 2in. diameter asbestos-cement pipes, valves and specials, and all ancillary works. The works are situated at Islandmoyle, Monemore, Ballygormanmore, Mullaghmore-Cleomac and Lisnamulligan. Documents from the offices of G. W. Reside, consulting engineer, Margaret Street, Newry, or at the offices of the Newry No. 1 Council, Council Offices, Newry. Deposit £5 5s. Tenders by Aug. 24.

Newton Abbot, Devon.—Augmentation of water supply contract 1, for R.D.C., including the providing and laying of about eight miles of asbestos cement pipe, varying from 3in. to 6in. internal diameter, also the construction of a booster station and a mass concrete reservoir of 50,000 gallons capacity, together with all ancillary works. Documents from Harvey, McGill and Hayes, consulting engineers, 8 Richmond Road, Exeter. Deposit £5 5s., cheque payable to R.D.C. Tenders by Sept. 7.

***North Lonsdale, Lancs.**—Sunbrick water supply scheme for R.D.C. Tenders by Aug. 25.

***Plymouth.**—Dousland filters for City Council. Deposit £2 2s. Tenders by Sept. 16.

***South Cambridgeshire.**—Eastern area water supply, mainlaying, contract 4, for R.D.C. Deposit £5 5s. Tenders by Aug. 30.

Tenbury, Worcs.—Water supply scheme, stage II, contract 1, for R.D.C., including the laying of approx. 30 miles of 6in., 4in. and 3in. dia. asbestos-cement water mains, the construction of a 185,000-gallon reinforced concrete reservoir and a brick pumping station, and for the execution of appurtenant works. Applications to John Dossor and station, and the execution of appurtenant Associates, consulting engineers, 54 Broad Street, Worcester, by first post, Aug. 15, accompanied by the names and addresses

of two engineers for whom works of a similar nature and magnitude have been undertaken. Deposit £5 5s., cheque payable to R.D.C. Plans also seen at the Council Offices, Tenbury Wells. Tenders by Sept. 12.

Waterford, Eire.—Kill and Bonmahon water supply scheme for C.C., including the construction of stream intake, slow sand filters, pumphouse and service reservoirs and the laying of new trunk main and distribution mains. The approximate lengths of asbestos-cement or p.v.c. main to be laid is as follows: 11,145yd. of 4in. class B pipe. The recruitment of labour shall, as far as possible, be done through local employment exchange. Documents from H. N. Walsh and Partners, consulting engineers, 47 Sunday's Well, Cork. Deposit £25. Tenders by Sept. 10.

Waterford, Eire.—Supply and delivery f.o.r. Kill, Co. Waterford, and erection of pumps and motors for the Kill and Bonmahon water supply scheme, for C.C. The plant shall consist of: Two electric pumping sets each consisting of a centrifugal pump and electric motor, each set shall be capable of delivering 20 gallons of filtered water per minute; 380-V 50 cycle, 3-phase A.C. electric power will be available at the site. Documents from H. N. Walsh and Partners, consulting engineers, 47 Sunday's Well, Cork. Deposit £2 2s. Tenders by Sept. 10.

West Dorset.—Water main to Swyre and Punccknowle, for Water Board, involving the laying of about five miles of 3in. and 4in. water main, chiefly with spun-iron pipes. Documents from R. Chapman, engineer and manager, 45 South Street, Bridport, Dorset. Deposit £2 2s. Tenders by Aug. 31.

Workington, Cumb.—Middle zone supply, contract 10, for B.C., including the laying of 2,500yd. of 15in. dia. concrete-lined, spun-iron pipes with flexible joints, together with the installation of sluice valves, washouts, etc. All works are within the borough boundary. Documents from G. McKay Porter, town clerk, Town Hall, Workington, on or after Aug. 15. Deposit £5, cheque payable to Corporation. Plans seen at the office of the Borough Engineer and Surveyor, Stoneleigh, Park End Road, Workington. Tenders by Sept. 12.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Inverness-shire.—Construction of the following for C.C.: (1) an extension to Bernera Pier; (2) a concrete slipway at Newton, North Uist, together with surfacing works to approach road. Documents from the County Surveyor, County Buildings, Ardrross Street, Inverness. Tenders by Aug. 24.

Kincardineshire.—Construction of a mass concrete protection wall along the foreshore at Cowie Village, Stonehaven, for C.C. Documents from Arch. Henderson and Partners, consulting engineers, 21 Bridge Street, Aberdeen. Deposit £3 3s. A representative of the engineers will meet intending offerers at the site at 2.30 p.m., Aug. 15. Tenders by Aug. 27.

Llandudno, Caerns.—Construction of reinforced concrete coast protection works for U.D.C. These works comprise: (a) The construction of 304yd. of reinforced stepped sea wall; (b) the construction of four timber groynes; (c) the reconstruction of the lifeboat slipway; (d) the driving of 89 tons of steel sheet piling. Documents from the offices of the Engineer and Surveyor, Town Hall, Llandudno. Contractors will be required to furnish details of similar work which they have carried out. Tenders by Aug. 22.

North Shields, Northumb.—Repair and reconstruction of the timberwork of the outer portion of No. 1 groyne and the reconstruction of timber dolphins, gangways and cabins and works incidental thereto for Tyne Improvement Commission. Documents from R. N. Eggleton, secretary, Bewick Street, Newcastle upon Tyne, 1. Deposit £2 2s. Tenders by Aug. 17.

HEATING AND VENTILATING

Birmingham.—Installation of partial central heating, hot and cold water and gas supply services in four family homes, two of which are to be built on Shard End estate and two on Tile Cross estate, for City Council. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s. cheque. Plans seen at the Mechanical and Public Lighting Department, 38 Cambridge Street, Birmingham, 1. Tenders by Aug. 26.

Hull.—Low-pressure hot water heating and domestic hot water supply installation at new Central Transport Offices for City Council. Documents from City Architect, Guildhall, Hull. Deposit £2 2s., payable to City Treasurer. Tenders by Aug. 17.

North Shields, Northumb.—Installation of lighting, heating and power circuits at filtration works and pumping station, Warkworth, for Coquet Water Board, as follows: (1) Complete installation of lighting circuits, includ-

ing provision of the lighting fittings; (2) complete installation of off-peak heaters, including provision of storage-type heaters; (3) complete installation of an underfloor heating system in a portion of the works; (4) provision and installation of 15-amp. socket outlets. Documents from S. G. Barrett, engineer and manager, the Coquet Water Board, P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1. Deposit £2 2s. Tenders by Aug. 19.

HOUSING SCHEMES

Abingdon, Berks.—Erection of 44 traditional dwellings with ancillary works as the second stage of development at Gainsborough Green, for B.C. Documents from A. Roscoe-Hudson, architect, The Market Place, Farringdon. Tenders by Sept. 6.

Barnsley, Yorks.—Eighty traditional dwellings on various sites, contract infilling 3, for B.C. The dwellings are grouped as follows: New Lodge estate, four pairs one-bedroom bungalows; Grange Lane, 11 pairs one-bedroom bungalows; Keresforth Hill Road, seven pairs three-bedroom houses, three pairs two-bedroom houses, one block of four two-bedroom houses, one block of three two-bedroom houses, two pairs one-bedroom bungalows, one block of three one-bedroom bungalows; Shepherds farm, Ardsley, two blocks of four one-bedroom bungalows, one block of three one-bedroom bungalows, one detached one-bedroom bungalow, two pairs one-bedroom bungalows. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by Aug. 29.

Berwick-upon-Tweed, Northumb.—Erection of six flats at Woolmarket, for B.C. Documents from the Borough Surveyor, Municipal Buildings, Berwick-upon-Tweed. Deposit £3 3s. Tenders by Sept. 12.

Bishop Auckland, Dur.—Houses and bungalows at Woodhouse Close estate, scheme 28, for U.D.C. Deposit £2 2s. Tenders by Sept. 24.

Billingdon, Oxon.—Two one-bedroom bungalows at Kempson Crescent, Littlemore, for R.D.C. Documents from J. E. Bushfield, engineer and surveyor, 76 Banbury Road, Oxford. Deposit £2 2s. Tenders by Aug. 29.

Bury, Lancs.—Seventy-six dwellings on Killon Street and Price Street housing scheme for B.C. Documents from Borough Engineer, Town Hall, Bury. Tenders by Aug. 22.

Bury St. Edmunds, Suffolk.—Erection of four flats and four houses, Rosemary Road, for B.C. Documents from the Borough Engineer and Surveyor, Borough Offices, Bury St. Edmunds. Deposit £2 2s. Tenders by Aug. 26.

East Barnet, Herts.—Construction of a block of 18 dwellings for elderly people, contract 930, for U.D.C. Deposit £2 2s. Tenders by Sept. 9.

Farnborough, Hants.—Erection and completion of a three-storey block of flats comprising 15 one-bedroom flats together with the conversion of an existing building to provide communal rooms, etc., and laying of paths, courts, etc., for U.D.C. Documents from the Engineer and Surveyor, Municipal Offices, Alexandra Road, Farnborough. Tenders by Sept. 2.

Fife, Fife.—Four traditional houses at Star of Markinch (second development) for C.C. Applications to the County Clerk, Cupar, Fife, by Aug. 13.

Fife, Fife.—Thirty-eight traditional houses at Methilhill 5th Dev. phase A, for C.C. Applications to the County Clerk, County Buildings, Cupar, Fife, by Aug. 13.

Gipping, Suffolk.—Erection of four one-bedroom bungalows and a pair of semi-detached houses at Old Newton, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Needham Market, near Ipswich. Deposit £3. Tenders by Aug. 19.

Hartlepool, Dur.—Twenty-four three-bedroom houses, four three-bedroom bungalows, two two-bedroom bungalows and 14 garages on a site north of King Oswy Drive near Hart Station for B.C. Documents from the office of the Borough Engineer, Borough Buildings, Hartlepool. Deposit £2. Tenders by Aug. 27.

High Wycombe, Bucks.—Forty-two bungalows, Hicks Farm estate, stage II, off Micklefield Road, for B.C. The 42 bungalows are divided into two contracts, as follows: Contract 1—14 bungalows; contract 2—28 bungalows. Documents from J. A. Parkinson, borough engineer and surveyor, Municipal Offices, High Wycombe. Tenders by Sept. 5.

Hove, Sussex.—Erection of houses and flats for B.C. Apply by 10 a.m., Sept. 5. Deposit £3 3s. Tenders by Oct. 18.

Kinross, Dundee.—One block containing six three-roomed dwelling-houses and one block containing two two-roomed dwelling-houses (eight houses in all) proposed to be built on the Montgomery Street and Bowton Road, for B.C. Applications to Geo. Wilson, town clerk, Town Clerk's Office, Kinross, by Aug. 15. Plans seen at the office of Gaudie, Hardie, Wright and Needham, architects, Castle Hill House, 1 High Street, Dundee.

Leeds.—Following for City Council: (a) 172 traditional dwellings at Raynville Road (106) and Brooklands (66), scheme 873; (b) 16 traditional ageing persons' flats at Brackenwood, scheme 878. Documents from the City Architect, Priestley House, Quarry Hill, Leeds, 9. Deposit £2 each, cheques payable to Corporation. Tenders by Sept. 1.

Lisburn, Antrim.—Construction of 124 dwellings and 43 garages, together with roadworks and siteworks at Warren Park, for U.D.C. Documents from the office of the Town Surveyor, Town Hall, Lisburn, or the offices of McCarthy and Lilburn, chartered surveyors, 47 Scottish Provident Buildings, Belfast. Deposit £5. Tenders by Sept. 6.

Maidenhead, Berks.—Erection of a pair of houses and garages, together with all necessary drainage and siteworks, contract 7a for B.C. Documents from the office of the Borough Engineer and Surveyor, 14 Craufurd Rise, Maidenhead. Deposit £2 2s. Tenders by Sept. 1.

Mitcham, Surrey.—Phipps Bridge redevelopment scheme, contract 4, stage 1—housing for B.C. Apply by Aug. 20. Tenders by Oct. 5.

Neath, Glam.—Twenty permanent traditional houses, Cwm Bedd, Giants Grave site, Briton Ferry, for B.C. Documents from the Borough Engineer at the Gwyn Hall, Neath. Deposit £2 2s. Tenders by Sept. 10.

Northern Ireland.—Construction at Russell Drive, Lurgan, of one three-storey block, comprising the following: (a) Six dwellings for the Northern Ireland Housing Trust; and (b) 10 dwellings for the Northern Ireland Hospitals Authority. Documents from the offices of the Trust, 12 Hope Street, Belfast, 12. Deposit £3. Tenders by Aug. 17.

Perth.—Muirton housing scheme, one shop and nine two-apartment houses for ageing persons, for City Council. Applications by letter to the Burgh Surveyor, 16 Tay Street, Perth, by Aug. 13. Deposit £2 2s.

Rhondda, Glam.—Construction of roads, sewers, dwellings and ancillary works for the following sites for B.C.: Cairo Street, Trealaw, 19 dwellings; rear of Graigwen Road, Cymmer, 29 dwellings. Documents from C. Gingell, borough architect, 13 Ystrad Road, Pentre. Rhondda. Deposit £3 3s. payable to B.C. Tenders by Aug. 20.

Ross-on-Wye, Here.—A block of four flats (two storey), together with drains, paths and all other ancillary works, at Brampton Avenue, Berryfield estate, for U.D.C. Applications to Edgar F. Young, chartered quantity surveyor, 4 Imperial Square, Cheltenham, by Aug. 16. Deposit £2 2s., payable to U.D.C. Tenders by Sept. 17.

Scarborough, Yorks.—Two semi-detached houses, Woodlands Cemetery, for B.C. Documents from V. Forshaw, borough and water engineer, Town Hall, Scarborough. Deposit £2 2s. Tenders by Aug. 17.

South Kesteven, Lincs.—Traditional-type bungalows on the following sites for R.D.C.: Four bungalows at Castle Bytham High Street; six bungalows at Billingborough, Back Lane, O.S. 32; eight bungalows at Market Deeping, Godsey Lane, Pt. O.S. 115 and 147. Builders may tender separately or for all of the above-mentioned dwellings. Documents from the office of G. F. J. Andrew, quantity surveyor, 41 North Street, Bourne. Deposit £2 2s. Tenders by Aug. 31.

Wellingborough, Northants.—Following for R.D.C.: (Contract 250) three pairs bungalows type Y and one pair bungalows type S, together with incidental works and including road works, Mears Ashby; (251) three pairs bungalows type S and two pairs bungalows type T, School Road/Chapel Hill, Irchester. Documents from C. L. Hanwell, surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £2 2s. each. Tenders by Sept. 10.

Yeovil, Som.—Erection of 42 houses, 12 old people's bungalows and six garages for B.C. Applications to A. Heal, borough surveyor, Municipal Offices, Yeovil, by Aug. 17, giving the names of local authorities for whom similar work has been carried out.

MATERIALS AND SUPPLIES

Bath.—Supply of 250 dustbins and lids for City Council. Documents from the City Engineer, Guildhall, Bath. Tenders by Sept. 3.

Blackburn, Lancs.—Supply of heavy canteen equipment for a new secondary school for B.C. Documents from the Chief Education Officer, Education Office, Library Street, Blackburn. Tenders by Aug. 20.

Derby.—Supply of stores for the year ending Oct. 31, 1961, for B.C.: Bricks, cement, waterproofing agents, lime, etc.; earthenware pipes; flagstones, kerbs, edgings, fence posts, etc.; granite; gravel and sand; limestone; slag; red shale; wet mix limestone. Documents from M. L. Francis, borough engineer and surveyor, Council House, Derby. Tenders by Aug. 19.

Durham.—Supply and delivery of the following for C.C.: Building bricks, hedging plants and grass seeds, plastic white line material, salt for snow melting, steel wire fabric for reinforcement, tools and stores, timber, bolts and nuts, wood screws and automobile lamp bulbs. Documents from the County Engineer and Surveyor, Aykley Heads, Durham. Tenders by Aug. 19.

Northern Ireland.—Supply and delivery of fuel oil for the power station at Coolkeeragh, County Londonderry, for Electricity Board. Documents from Alan H. Parr, secretary, P.O. Box 2, Danesfort, 120 Malone Road, Belfast, 9. Deposit £5 5s., cheques payable to the Board. Tenders by Aug. 22.

North Riding.—Supply during the summer of 1961 of ground rock salt for use on roads for C.C. Applications to the County Surveyor, County Hall, Northallerton. Tenders by Sept. 19.

Pontypridd, Glam.—Supply of petrol and diesel oil for the requirements during the year commencing on Nov. 1, 1960, for U.D.C. While the exact quantities which will be required cannot be specified, as a guide to tenderers, it can be stated that the requirements for the past 12 months have been as follows: Petrol, 23,000 gallons; diesel fuel oil, 120,000 gallons. Tenderers are asked to quote net prices per gallon delivered as required to the Transport Department, Treforest and Mill Field Depot, Pontypridd. The source of origin and refining of the supplies tendered for should be stated, and the guaranteed maximum sulphur content of diesel oil must not exceed 0.5 per cent. Further particulars can, if required, be obtained from the Council's Transport Manager, Transport Department, Treforest, Pontypridd. Tenders, in plain sealed envelope, marked "Tender—Fuel Oil Supplies," to Bernard M. Murphy, clerk of the Council, Municipal Buildings, Pontypridd, by noon, Sept. 5.

Wirral, Ches.—Supply of oil fuel for U.D.C.

PLANT AND MECHANICAL TRANSPORT

Burgess Hill, Sussex.—Supply of 3-ton lorry, for U.D.C. Tenders by Aug. 20.

Maidstone, Kent.—Supply and delivery of one combined gully and cesspool emptier for Corporation Transport Department. Documents from the General Manager and Engineer, Corporation Transport Department, 372 Tonbridge Road, Maidstone. Tenders by Sept. 10.

Richmond, Yorks.—Supply of vibrating roller, for B.C.

Tynemouth.—Supply of five tipping lorries and one refuse collection vehicle for B.C. Documents from the Director of Public Cleansing, Cleansing and Transport Department, 101 Norfolk Street, North Shields. Tenders by Aug. 25.

PLAYING FIELDS, PARKS, ETC.

Altrincham, Ches.—Levelling and seeding of land, Grove Lane, for B.C. Tenders by Sept. 3.

Barnes, Surrey.—Construction of three hard tennis courts at Rocks Lane Recreation Ground for B.C. Documents from W. R. Shepherd, borough engineer and surveyor, Municipal Offices, Sheen Lane, S.W.14. Tenders by Aug. 26.

East Barnet, Herts.—Reconstruction of four hard tennis courts and renewal of chain link surround at Oak Hill Park for U.D.C. Deposit £2 2s. Tenders by Aug. 27.

Hereford.—Provision of running track for City Council. Deposit £2 2s. Tenders by Sept. 12.

Hull.—Supply of good quality trees, shrubs and miscellaneous plant material for use in the re-design of Queen's Gardens for City Council. Documents from the Parks, Cemeteries and Allotments Department, 79 Ferensway, Kingston upon Hull. Tenders by Sept. 5.

Hull.—Following for City Council: (a) Construction of four bowling greens and six tennis courts, and the erection of chain link surrounds only for a further six tennis courts at the Bilton Grange Park, Barham Road, Kingston upon Hull; also (b) the construction of two bowling greens, roads and footpaths, six tennis courts and surrounds only for a further three tennis courts at the Longhill Playing Fields, Longhill estate. Documents from the General Superintendent, Parks Department, 79 Ferensway, Kingston upon Hull. Tenders by Aug. 29.

Reading, Berks.—Manor Junior School playing field for B.C. Deposit £2 2s. Tenders by Aug. 24.

Sunderland, Dur.—Construction of tennis courts for B.C. Deposit £2 2s. Tenders by Aug. 23.

Willenhall, Staffs.—Levelling, soiling and turfing of 4,825 sq. yd. of open spaces and corner plots on the New Invention housing

estate for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Willenhall. Tenders by Sept. 10.

***York.**—Construction of playing field for City Council. Deposit £2. Tenders by Sept. 5.

***York.**—Land drains, etc., Ashfield Secondary Modern School playing fields for City Council. Deposit £2. Tenders by Sept. 5.

ROADS, BRIDGES AND SITE WORKS

***Axminster, Devon.**—Hawchurch sewerage and sewage disposal scheme for R.D.C. Deposit £3 3s. Tenders by Sept. 5.

***Banffshire.**—Construction of a by-pass, approx. 700yd. long, through Duff House grounds for C.C. The contract includes earthworks (50,000 cu. yd.), drainage, bottoming and surfacing of carriageway, footpaths, fencing and ancillary works. Documents from the County Road Surveyor, County Buildings, Sandyhill Road, Banff. Deposit £5 5s. Tenders by Aug. 29.

***Barnoldswick, Lancs.**—Making-up Smith Street for U.D.C. Documents from Peier Turner, engineer and surveyor, 32 Church Street, Barnoldswick, via Colne, Lancs. Tenders by Aug. 20.

***Barnstaple, Devon.**—Goodleigh sewerage and sewage disposal for R.D.C. Deposit £3 3s. Tenders by Sept. 9.

***Bingley, Yorks.**—Making-up of Bailey Hills Road, Bingley, involving the reconstruction of approximately 280 lin. yd. of carriageway and ancillary works for U.D.C. Documents from the Surveyor, Town Hall, Bingley. Deposit £2 2s. Tenders by Aug. 17.

***Birmingham.**—Reconstruction of Coley's Lane for City Council. Deposit £2 2s. Tenders by Aug. 24.

***Blaenavon, Mon.**—Improvement works on five roads for U.D.C. The work includes excavation, concrete kerbing, stone pitched foundations and tarmacadam surfacing, etc. Documents from the Surveyor's Department, Council Offices, Blaenavon. Deposit £3 3s. Tenders by Aug. 29.

***Bredbury and Romiley, Ches.**—Making-up, paving and surfacing of part of Sandiway, Bredbury, approx. 145ft. in length, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, George Lane, Bredbury. Deposit £2 2s. cheque payable to U.D.C. Tenders by Sept. 5.

***Bridge-Blean, Kent.**—Following works for R.D.C.: (Contract 1) The construction of approx. 970 sq. yd. of tarmacadam carriageway and 100yd. of 6in. dia. foul sewers, together with surface water drains and incidental works, at Shalmsford Street, Chartham; (2) the modification of the sewage disposal works, consisting of alterations to the existing tanks, construction of a store, paths, access road, and incidental works, at Chartham. Documents from the Engineer and Surveyor, 41 Old Dover Road, Canterbury. Deposit £2 2s. for contract 1. Tenders by Sept. 7.

***Bristol.**—Ridgeway Road footbridge for City Council. Tenders by Sept. 8.

***Camberwell.**—Asphalt paving works, Park-house Street, for B.C. The following to be laid on existing foundations: (a) Hot rolled asphalt base course (B.S.S. 594-1958), 160 tons approximately; (b) 1½in. thick wearing course, hot rolled asphalt (B.S.S. 594-1958), 1,518 sq. yd. approximately. Documents from Borough Engineer and Surveyor, Town Hall, Camberwell, S.E.5. Tenders by Aug. 22.

***Canterbury, Kent.**—Reconstruction of Union Street for City Council. Tenders by Sept. 8.

***Cardiff.**—Pentreban Road housing scheme—advance preparation works for City Council. Deposit £5 5s. Tenders by Sept. 9.

***Chatham, Kent.**—Roads and sewers, part II, Hardstow redevelopment area, for B.C. Deposit £3 3s. Tenders by Aug. 31.

***Chertsey, Surrey.**—Miscellaneous highway works, 1960-61, for U.D.C. Deposit £1 1s. Tenders by Sept. 2.

***Chester-le-Street, Dur.**—New Lambton (Floater Mill) sewerage and sewage disposal for R.D.C. Apply by Aug. 22. Deposit £5.

***Crickhowell, Brecons.**—Crickhowell sewerage scheme for R.D.C. Deposit £3 3s. Tenders by Sept. 8.

***Cuckfield, Sussex.**—Roadworks, etc., for U.D.C. Deposit £2 2s. Tenders by Aug. 27.

***Dartford, Kent.**—Making-up of part of Summerhouse Drive, for B.C. Deposit £2 2s. Tenders by Sept. 6.

***Denbighshire.**—Making-up Llewellyn Terrace and Llewellyn Avenue, Glan Conwv, for C.C. Deposit £2 2s. Tenders by Sept. 3.

***Dewsbury, Yorks.**—Westtown redevelopment, High Street improvement for B.C., including the construction of approx. 3,770 sq. yd. of tarmacadam carriageway and 2,120 sq. yd. of footpaths. Documents from the office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury. Deposit £2 2s. Tenders by Sept. 7.

***Down.**—Reconstruction of route T2 (Belfast-Newcastle Road) for approx. 3,600 lin. yd. and

the realignment of about 390yd. of Belfast Water Commissioners' 36in. and 39in. pipes in the townlands of Carrickmaddyroe, Killaney and Tullywasnacunagh, for C.C. Documents from C. A. Craig, county surveyor, County Surveyor's Office, English Street, Downpatrick. Deposit £10, cheques payable to C.C. Tenders by Aug. 30.

***Down.**—Reconstruction of Newtownards to Donaghadee Road, route A.48, at Mackintosh's Bridge, in the townland of Cottown, for C.C. Documents from the County Surveyor, County Surveyor's Office, English Street, Downpatrick. Deposit £5 (cheques payable to C.C.). Tenders by Aug. 16.

***Dunstable, Beds.**—Surface dressing, 1960, for B.C. Tenders by Aug. 22.

***East Barnet, Herts.**—Making-up of Latimer Road, contract 931 for U.D.C. Deposit £1 1s. Tenders by Aug. 29.

***Edinburgh.**—Providing and laying asphalt surfaces, etc., following abandonment of tramways between Church Hill and Salisbury for City Council. Documents from City Engineer, 329 High Street, Edinburgh. Tenders by Aug. 17.

***Edmonton, Middx.**—Resurfacing and reconstruction of Silver Street for B.C. Deposit £2 2s. Tenders by Sept. 2.

***Ellesmere Port, Ches.**—Red Lion Lane improvement scheme, contract 302, for B.C., including the construction of approximately 1,000 sq. yd. of pitched and bituminous macadam carriageway; 700 sq. yd. of footpaths; and 70yd. of 18in. diameter sewers; together with ancillary works. Documents from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port. Tenders by Aug. 22.

***Enniskillen, Fermanagh.**—Reconstruction and realignment of Henry Street, and Sligo Road, approximately one mile in length, contract 1, for B.C. The works comprise approximately 650 lin. yd. of carriageway and footpath carried on a reinforced concrete and prestressed concrete piled structure; earthworks; 28,000 super yd. asphalt surfacing, together with footpath, kerbing, fencing, drainage and other incidental works relating to the scheme. Documents from the offices of W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast, 9. Deposit £10 10s. Tenders by Sept. 30.

***Esher, Surrey.**—Footpath reconstruction scheme, stage 1, contract 306, for U.D.C. Deposit £1 1s. Tenders by Aug. 26.

***Failsforth, Lancs.**—Supplying and laying approximately 16,500 sq. yd. of 1½in. single-course hot rolled asphalt by mechanical spreader on Oldham Road for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Failsforth. Deposit £2 2s. Tenders by Aug. 15.

***Gillingham, Kent.**—Making-up of Kingsway for B.C., the private street works consisting of the construction of approximately 3,127 sq. yd. of carriageway with tarred and bituminous macadam surfacing with hardcore foundation; 1,067 sq. yd. of slab paving; 11 soakaways, together with gullies and other ancillary works. Applications to the Borough Engineer, Municipal Buildings, Gillingham. Deposit £2 2s. cheque. Tenders by Aug. 22.

***Gosport, Hants.**—Making-up six private streets for B.C. Deposit £2 2s.

***Harrogate, Yorks.**—Making-up of one or more of the following private streets for B.C.: (a) Lascelles Road, 320 lin. yd.; (b) Lascelles Grove, 130 lin. yd.; (c) Florence Road, 260 lin. yd.; (d) Margaret Road (part), 90 lin. yd. The work comprises kerbing and flagging to the footpaths and surfacing of the carriageway in tarmacadam and fine cold asphalt. Documents from the Office of the Borough Engineer, Municipal Offices, Harrogate. Tenders by Sept. 1.

***Havant and Waterloo, Hants.**—Making-up of part of Jessie Road for U.D.C. Tenders by Aug. 25.

***Hove, Sussex.**—Making-up Sandringham Close, etc., for B.C. Tenders by Aug. 29.

***Ilford, Essex.**—Extensions to St. Augustine's School for B.C. Deposit £2 2s. Tenders by Aug. 23.

***Ilkley, Yorks.**—Making-up of Oakridge Avenue, Menston, for U.D.C. Tenders by Aug. 27.

***Ilkley, Yorks.**—Making-up of Southfield Road Burley, for U.D.C. Tenders by Aug. 27.

***Ilkley, Yorks.**—Making-up of Endor Crescent for U.D.C. Tenders by Aug. 27.

***Inverness-shire.**—Construction of three roads on the Island of Barra for C.C.: (1) Eoligarry link road, approximately 2,000yd. in length, route C.90; (2) Ledaig township road, approximately 400yd. in length; (3) Brevig township road, approximately 600yd. in length. Documents from the County Surveyor, County Buildings, Inverness. Tenders by Aug. 19.

***Isle of Ely.**—Construction of a footbridge, approximately 190ft. long, in light structural

steelwork cantilevered out from the side of the existing road bridge at Guyhirne for C.C. Documents from the County Surveyor, County Hall, March, Cambs. Tenders by Aug. 29.

***Isle of Ely.**—Strengthening and repair of Euximoor Bridge, Christchurch, for C.C. Tenders by Aug. 29.

***King's Lynn, Norfolk.**—New Road and Denmark Road, private street works, for B.C. Deposit £2 2s. Tenders by Sept. 6.

***Larne, Antrim.**—Construction of approx. 540 lin. yd. of 22ft. wide and 200 lin. yd. of 16ft. wide concrete road, together with associated footpaths, services, etc., at the Golf Course Development Area, Cairncastle Road, for B.C. Documents from R. Lytle, town clerk, Gardenmore House, Larne. Deposit £5 5s. Tenders by Aug. 24.

***Leicester.**—Reconstruction and asphalt surfacing of approximately 690ft. of Checketts Road, together with the provision of storm-water sewers, and ancillary works, for City Council. Documents from John L. Beckell, city surveyor, Town Hall, Leicester. Deposit £1 1s. Tenders by Aug. 22.

***Lisburn, Antrim.**—Widening, realignment and reconstruction of Grand Street, for U.D.C., including the provision of surface water drains and other incidental works. The length of the section concerned is approximately 540 lin. yd., and the width of the reconstructed carriageway will be 27ft. with 8ft. footpaths. Documents from the office of the Town Surveyor, Town Hall, Lisburn. Deposit £3. Tenders by Aug. 18.

***Londonderry.**—Reconstruction of a section of trunk road T.8 at Coolshanny, immediately south of Magherafelt, for C.C. The work comprises the construction of approximately one mile of new carriageway in bituminous macadam, and involves approximately 72,000 cu. yd. of excavation, together with ancillary works. Documents from H. K. Scott, county surveyor, Courthouse, Coleraine. Deposit £5 5s. Tenders by Aug. 26.

***Luton, Beds.**—Final making-up of part of Green Lane for B.C., total length approx. 45 lin. yd. Work comprises the construction of carriageway, footways and incidental works. Documents from the Borough Engineer, Town Hall, Luton. Deposit £2 2s., cheques payable to Corporation. Tenders by Sept. 1.

***Middlesex.**—Construction of a roundabout for C.C. Deposit £10. Tenders by Aug. 31.

***Middleton, Lancs.**—Access road and car park to youth centre for B.C. Deposit £2 2s. Tenders by Aug. 17.

***Mitford and Launditch, Norfolk.**—Tar roads on Council housing sites at Garvestone, Lyng, Mattishall, Rougham, Shipdham and Whissonsett, for R.D.C. Documents from A. G. Wright, assistant clerk, The Guildhall, East Dereham. Tenders by Aug. 22.

***Northwich, Ches.**—Construction of approximately 940 sq. yd. of tarmacadam roads, 820 sq. yd. of flagged paving, and 373 lin. yd. of 6in. diameter stoneware sewers and the demolition and reconstruction of outhouses, together with ancillary works in the parish of Rudheath, for R.D.C. Documents from the offices of the Engineer and Surveyor, Whitehall, Hartford, Northwich. Deposit £2 2s. Tenders by Sept. 1.

***Orpington, Kent.**—Making-up of the following for U.D.C.: (1) Dowleville Road, Green Street Green, 123 lin. yd.; (2) Hilda Vale Road, Farnborough, 440 lin. yd., consisting of excavating for and providing and laying hardcore foundation, tarmacadam surfacing, slab paved footways, kerbing, construction of a surface water sewer, soakaways and gullies. Documents from L. W. Freeman, engineer and surveyor, Civic Offices, The Walnuts, High Street, Orpington. Deposit £2 each. Tenders by Aug. 26.

***Ramsbottom, Lancs.**—Making-up the following streets at Pin Meadow, Stubbs, for U.D.C.: William Street, Meadow (part), Gilbert Street. Together with eight back streets. Documents from the Engineer and Surveyor, Council Offices, Ramsbottom. Tenders by Sept. 7.

***Reading, Berks.**—Car park works at Technical College, for B.C. Deposit £2 2s. Tenders by Aug. 31.

***Ruislip-Northwood, Middx.**—Highway works at Ruislip Station Bridge, West End Road, for U.D.C., including building up and widening of embankments, regrading, realignment and resurfacing of approximately 3,500 sq. yd. of carriageway, re-laying 700 lin. yd. of existing granite kerb, and reconstruction of footways, together with surface water drainage, etc. Documents from Engineer and Surveyor, Council Offices, Northwood. Deposit £2 2s. Tenders by Sept. 5.

***Sandbach, Ches.**—Making-up of Sweettooth Lane (part of) for U.D.C. Documents from H. J. Rees, engineer and surveyor, Council Offices, Crewe Road, Sandbach. Deposit £1 1s. Tenders by Aug. 29.

***Scotland.**—Construction of the approach viaducts of the Forth Road Bridge, contract

4. This work will include: (1) Piers and foundations; (2) abutments; (3) deck, including girders and roadway. Documents from Mott, Hay and Anderson, consulting engineers, 9 Idlesleigh House, Caxton Street, Westminster, London, S.W.1. Deposit £10, cheque payable to Forth Road Bridge Joint Board. Tenders by Oct. 14.

Sleaford, Lincs.—Surface dressing of approx. 40,000 sq. yd. of carriageway for U.D.C. Documents from the Surveyor, Westgate House, 25 Westgate, Sleaford. Tenders by Aug. 20.

Southend-on-Sea, Essex.—Resurfacing of paved areas and construction of new paved areas at three schools for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by Sept. 7.

Stourbridge, Worcs.—Reconstruction and widening of Glasshouse Hill (part) for B.C., consisting of approximately 250 lin. yd. flagging, 800 sq. yd. carriageway in premixed waterbound macadam and bitumen surfacing, together with slabbed paving, surface water drainage and ancillary works. Documents from H. W. Morris, borough engineer and surveyor, Council House, Stourbridge. Deposit £2 2s. Tenders by Sept. 2.

Sunbury-on-Thames, Middx.—Improvement of Manyate Lane, Shepperton, for U.D.C. Tenders by Sept. 5.

Sunderland, Dur.—Following for B.C.: (a) The construction of paths and drainage works; (b) laying of water supply pipes at Barnes Park extension. Documents from the office of the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. for (a) and £1 1s. for (b), cheques payable to Corporation. Tenders by Aug. 22.

Sunderland, Dur.—Construction of garage access roads for B.C. Deposit £2 2s. Tenders by Aug. 23.

Sunderland, Dur.—Laying of flagging. Howick Street area, comprising 3,375 sq. yd. for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. Tenders by Aug. 23.

Surrey.—Construction of two bus bays in reinforced concrete on Hampton Court Way (A.309) for C.C. Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Aug. 20.

Sutton Coldfield, War.—Making-up of Moss Drive for B.C. Deposit £2. Tenders by Aug. 24.

Swansea, Dorset.—Making-up of Redcliff Road, etc., for U.D.C. Tenders by Sept. 3.

Taunton, Som.—Galmlington Road improvement for B.C. Tenders by Aug. 22.

Twickenham, Middx.—Making-up of Conway Road, Hounslow, for B.C., comprising the construction of carriageway (approximately 3,000 sq. yd.), footways, verges, kerbing, and approximately 1,000 lin. yd. of sewers. Documents from A. S. Knolles, borough engineer, Municipal Offices, Twickenham. Deposit £2 2s. Tenders by Sept. 1.

Uxbridge, Middx.—Peachey Lane improvement, contract 453, for B.C. Tenders by Aug. 31.

Welwyn Garden City, Herts.—Road reconstruction and widening works for U.D.C. Tenders by Aug. 29.

Wigston, Leics.—Road improvement works for U.D.C. Deposit £3 3s. Tenders by Aug. 31.

Wigston, Leics.—Major road improvement works, route B.582, for U.D.C. Deposit £5 5s. Tenders by Sept. 14.

Warwick.—Construction of Coventry Road, Link Road, for B.C. Deposit £2 2s. Tenders by Aug. 29.

Westthorpe, Lincs.—Central Park development for U.D.C. Deposit £10 10s. Tenders by Sept. 5.

Worcester.—St. Catherine's Vale redevelopment advance preparation road works for City Council, comprising the clearance of the site, the laying of approximately 106 lin. yd. of kerbs and channels, the construction of approximately 380 sq. yd. of roadway and approximately 150 sq. yd. of footway, the provision of two gullies and their connection to the sewer, together with appurtenant works. Documents from the City Engineer, 22 Bridge by Aug. 24.

Wrexham, Denbighs.—Holt Street improvement, Market Street to Farndon Street, for B.C. Deposit £2 2s. Tenders by Aug. 15.

Wrexham, Denbighs.—Resurfacing of carriageways for B.C. Deposit £2 2s. Tenders by Aug. 15.

York.—Road works, etc., at the Central College of Further Education, Dringhouses, for City Council. Deposit £2. Tenders by Sept. 5.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Aberaeron, Cards.—Cwrtnwydd (Cards.) sewerage and sewage disposal scheme for R.D.C., comprising the excavating and refilling

trenches in roads and fields, the supplying, laying and jointing of approximately 2,200 yd. 6in. spun-iron and concrete tube sewers, with 46 brick and concrete manholes, stoneware house connections, together with the construction of the disposal works consisting of settling tanks, percolating filters, humus tanks, sludge beds, pump house and other incidental works connected therewith complete. Documents from S. G. D. Evans, clerk of the Council, Council Offices, Aberaeron, or from J. Owen Parry and Lewis, consulting engineers, Ammanford. Deposit £5 5s. Tenders by Aug. 23.

Alford, Lincs.—Construction of walls surrounding two filter beds at the sewage works for U.D.C. Documents from the Surveyor, Council Offices, Alford. Tenders by Sept. 2.

Ammanford, Carm.—Reconstruction scheme for Amman Valley Joint Sewerage Board. Deposit £5 5s. Tenders by Sept. 21.

Ashton-in-Makerfield, Lancs.—Sewage disposal works for U.D.C. Deposit £5 5s. Tenders by Sept. 19.

Aylesbury, Bucks.—New sewage disposal works for B.C. Deposit £2 2s. Tenders by Aug. 25.

Basford, Notts.—Following works for R.D.C.: East Leake Parish—providing and laying of approximately 300 yd. of 6in. stoneware pipes, together with manholes, inspection chambers and appurtenant works across road and gardens in West Leake Road. Documents from the Engineer and Surveyor, Rock House, Stockhill Lane, Basford. Deposit £1 1s. Tenders by Aug. 22.

Bathavon, Som.—Corston and Newton St. Loe sewerage scheme for R.D.C. Deposit £3 3s. Tenders by Sept. 7.

Beaconsfield, Bucks.—North Drive foul sewer for U.D.C. Deposit £2 2s. Tenders by Sept. 6.

Bingham, Notts.—Construction of about 400 yd. of 6in. diameter concrete or stoneware pipe sewer 10ft. deep at Whaddon for R.D.C. Documents from the offices of Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by Aug. 31.

Bradford, Yorks.—Work of extending the capacity of an existing sludge lagoon at the North Bierley sewage work for City Council. The contract will include the excavating of approximately 2,200 cu. yd. of spoil material on the site and the utilisation of the excavated material to increase the height of the existing earth retaining banks to the sludge lagoon. Documents from the Sewage Works Engineer and Manager, Esholt Hall, near Shipley. Tenders by Aug. 22.

Bridgwater, Som.—Construction of 289 lin. yd. of 6in. diameter porous concrete pipes, 1,450 lin. yd. of 3in. diameter clay land drains and the seeding of 16,650 sq. yd. of Coronation Playing Field for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Bridgwater. Deposit £2 2s. Tenders by Aug. 20.

Dublin, Eire.—Laying of sewers in connection with the proposed university buildings at Stillorgan Road. The work comprises the laying of approximately 125 lin. yd. of 9in. sewer, 175 lin. yd. of 12in. sewer, 914 lin. yd. of 15in. sewer, together with all necessary manholes, ventilating columns and fittings. Documents from Nicholas O'Dwyer, Son and Partners, 6 Burlington Road, Dublin. Deposit £10 10s. Tenders by Aug. 23.

Dungannon, Tyrone.—Moygashel sewerage scheme for Joint Committee, including supplying and laying of approximately 4,645 lin. yd. of reinforced concrete pipes in diameters varying from 18in. to 42in.; 130 lin. yd. of 21in. diameter steel pipes and 200 lin. yd. of 9in. and 15in. diameter fireclay pipes, together with other ancillary works in connection with the provision of new trunk and subsidiary sewers in Dungannon. Documents from the offices of W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast. 9. Deposit £5 5s. Tenders by Aug. 25.

High Wycombe, Bucks.—Woburn Valley link sewer, contract 5, for B.C. Deposit £5 5s. Tenders by Sept. 19.

Houghton-le-Spring, Dur.—Sedgeleth sewage disposal works extensions for U.D.C. Apply by Aug. 22. Deposit £5.

King's Lynn, Norfolk.—Re-laying of part of the Saddlebow Road sewer for B.C. Documents from the office of H. G. Ridler, borough engineer, Clifton House, 17 Queen Street, King's Lynn. Deposit £2 2s. Tenders by Aug. 30.

Launceston, Corn.—Construction of a new circular bacteria bed and certain ancillary works at Trebulet for R.D.C. Documents from G. L. Davey, clerk of the Council, Council Offices, 20 Western Road, Launceston. Deposit £2 2s. Tenders by Aug. 22.

Lisburn, Antrim.—Supply and erection of any or all of the following items of equipment at Upper Falls sewage works extension for R.D.C.: (a) Aeration equipment; (b) detritor; (c) disintegrator; (d) control equipment. Documents from W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast. 9. Deposit £5 5s., cheques payable to R.D.C. Tenders by Sept. 19.

Maidstone, Kent.—Extensions to Aylesford sewage disposal works, for B.C. Deposit £5 5s. Tenders by Oct. 3.

Maldon, Essex.—Sewer extension, Burnham Road, Southminster, for R.D.C., including the laying of approximately 200 yd. of 6in. diameter stoneware sewer and three manholes. Documents from the Engineer and Surveyor, Council Offices, Wantz Road, Maldon. Tenders by Aug. 16.

Manchester.—Davyhulme sewage works extensions: Supply, delivery and erection of the lighting equipment and auxiliary services for the primary sludge digestion plant for City Council. Documents from the City Surveyor, Town Hall, Manchester, 2, after Aug. 15. Tenders by Sept. 5.

Midlothian.—Supply and laying of approximately 200 lin. yd. of steel and concrete pipe sewers, together with various other concreting and associated works within the site of the existing purification works at Hardengreen for C.C. Applications to Partridge, Earp and Partners, 18 Great King Street, Edinburgh, 3. Deposit £5 5s.

Oxford.—Re-laying sewers for City Council. Tenders by Sept. 1.

Salford, Lancs.—Culverting of Singing Clough Brook, Kearsley, for City Council. Deposit £1 1s. Tenders by Sept. 5.

Sutton and Cheam, Surrey.—Surface water and soil sewers, High Street, for B.C. Deposit £2 2s. Tenders by Sept. 9.

Wainford, Suffolk.—Construction of approx. 670 yd. of 6in. glazed stoneware sewer, manholes, an ejector station, 150 yd. of 4in. asbestos-cement rising main and sewage disposal works, comprising a septic tank and filter, at Homersfield, near Harleston, for R.D.C. Documents from the offices of A. P. I. Cotterell and Son, engineers, 54 Victoria Street, Westminster, S.W.1. Deposit £3 3s. Plans also seen at the Council Offices, 1 Saltgate, Beccles. Tenders by Sept. 5.

Whittlesey, L. of E.—Sewage disposal works extensions, contract 8 for U.D.C. Deposit £5 5s. Tenders by Aug. 31.

Worsley, Lancs.—Following works under one contract at Little Hulton for U.D.C.: (a) Construction of a sewage disposal works, comprising four reinforced concrete settling tanks, two reinforced concrete aeration tanks, one reinforced concrete digestion tank, two sludge pump-houses, one reinforced concrete grit tank, reinforced concrete consolidation tanks, reinforced concrete channels, foundation to gasholder, 13 sludge beds, together with access roads and services; (b) construction of intercepting sewer 1,850 yd. long with 12in. to 27in. diameter concrete pipes; (c) 300 yd. of 15in. cast-iron rising main. Documents from the office of the Engineer and Surveyor, Town Hall, Walkden. Deposit £5 5s. Tenders by Aug. 27.

York.—Surface water culvert, Ashfield Secondary Modern School, for City Council. Deposit £2. Tenders by Sept. 5.

STREET LIGHTING

Basildon, Essex.—Supply and erection of the following for U.D.C.: (a) Sixteen class A sodium discharge lamps on concrete columns in A.13 (High Road, Bowers Gifford); (b) 35 sodium discharge lamps on steel columns in A.129 (London Road, Billericay); and (c) 70 sodium discharge lamps on steel columns in A.129 (Southend Road, Billericay). Documents from the Engineer and Surveyor, 88 Town Square, Basildon. Tenders by Aug. 22.

Cheadle and Gatley, Ches.—Supply and erection of 39 group A prestressed spun concrete lighting columns, together with 140-watt sodium lamps and lanterns, in Manchester Road, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Abney Cheadle, Cheshire. Deposit £2 2s. Tenders by Sept. 7.

Dartford, Kent.—Group A street lighting, town centre approach roads, for B.C. Deposit £2 2s. Tenders by Sept. 6.

Dunbartonshire.—Cumbernauld New Town special lighting district, supply of class B fluorescent street lighting lanterns, suitable for mounting on 15ft. steel columns, for C.C. Suppliers who desire to offer are requested to forward specification details and drawings of the lanterns they can supply, together with time of delivery, to Mr. William Arthur, county sanitary inspector and lighting superintendent, 24 George Square, Glasgow, C.2, by Aug. 22.

East Barnet, Herts.—Public lighting improvement, 1960-61, contract 927, for U.D.C. Deposit £2 2s. Tenders by Aug. 31.

Frimley and Camberley, Surrey.—Supply of approximately 150 group A steel street lighting columns for U.D.C. Documents from the Engineer and Surveyor, Municipal Buildings, London Road, Camberley. Tenders by Aug. 22.

Leighton Buzzard, Beds.—Maintenance of street lighting throughout the urban district for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Leighton Buzzard. Tenders by Aug. 31.

***Rothwell, Yorks.**—Street lighting, Leeds-Exeter trunk road, A.61, for U.D.C. Deposit £2 2s. Tenders by Sept. 2.

Stoke-on-Trent, Staffs.—Supply and delivery of the following street lighting equipment for City Council: (a) Post top mounting lanterns (approximately 1,000); (b) metal columns, class B (approximately 1,000); (c) totally enclosed 80-W chokes (approximately 250); (d) capacitors suitable for 80-W M.V. lamp (approximately 250); (e) self-starting synchronous motor plug in type time switches (15-A) (approximately 1,000). Documents from City Engineer and Surveyor, Town Hall, Stoke-on-Trent. Tenders by Aug. 17.

***Whickham, Dur.**—Electrical street lighting, for U.D.C. Tenders by Aug. 29.

Willenhall, Staffs.—Group B 80-W mercury discharge street lighting for U.D.C. Erection only of 92 Stanton type 9A concrete columns and the provision and fixing of lanterns, lamps, and the necessary wiring. Documents from the office of the Engineer and Surveyor, Town Hall, Willenhall. Tenders by Sept. 10.

INTERNATIONAL CONTRACTS

Nairobi, Kenya.—Chania Aqueduct: Supply of a water flow recorder and integrator, contract G1, for City Council. Documents from the office of Howard Humphreys and Sons, consulting engineers, Sadler House, Nairobi, Kenya, or 34 Kings Road, Reading, Berks. Tenders by Sept. 1.

Nigeria.—Supply and installation at Maiduguri, Northern Nigeria, of the following for Electricity Corporation: One 250-kW. diesel-driven alternator set, and one mechanical-type circulating water cooler, suitable for use with this machine. Documents from the Resident Engineer, Electricity Corporation of Nigeria, c/o Adelphi, John Adam Street, London, W.C.2. Tenders by Aug. 20.

AWARDS

BUILDING AND DECORATING (See also Housing Schemes)

Barking, Essex.—Following for B.C.: Plastering, phase IV, new town hall—Pools Granolithic and Plastering Co., Ltd., £5,596; tiling and asphalt work to roofs of Park Modern Secondary and Manor Primary Schools—Metropolitan Asphalt Co., Ltd., 9 Dalkeith Grove, Stanmore, Middx.; additional accommodation at Park Modern Secondary School—Direct Labour, £12,850; specialist joinery work for the assembly hall—Spencer and Clarke, Ltd., Sawmills, Elton, Bury, Lancs., £6,358 (recommended).

Beddington and Wallington, Surrey.—Re-decoration of external wall surfaces to 144 houses at Park Farm estate, for B.C.—Syme and Duncan, Ltd., £3,792 (recommended).

Bradford, Yorks.—Following for City Council: Erection of public conveniences at Kipping Lane, Thornton, and construction of a two-classroom unit at Swain House School—Thomas Obank and Sons, Ltd., Thackley, Idle, £3,850 and £5,110, respectively (recommended).

Internal painting of various schools—Barkerend Secondary Modern, Hanson Secondary, College of Art, Margaret McMillan Training College—D. E. Bagley and Co., Ltd., 111 Legrams Lane, Bradford, 7, £1,500, £2,700, £789 and £1,690, respectively; Eccleshill North, St. Peter's R.C., All Saints' C. of E., and Cathedral Premises—James Robinson (Decorators), Ltd., 4 South Road, Cullingworth, £610, £1,000, £851 and £717, respectively; Frizinghall Primary and Bolling Grammar—L. Sheffield, Ltd., 7 Corban Street, Bradford, 4, £1,077 and £2,143, respectively; Dudley Hill Primary, Green Lane Primary, Tyersall Boys' and Girls' Secondary and Grange Secondary—Hudson and White, Ltd., Sawrey Place Works, Little Horton Lane, Bradford, 5, £780, £989, £900 and £3,300, respectively.

Bridport, Dorset.—Following for B.C.: Extension at West Street car park conveniences—H. O. Pitfield, The Studio, Morcombelake,

Bridport, £3,150; external painting of Council houses, sections 1, 3 and 4—Gale and Legg, 62a South Street, Bridport, £1,152, £1,346 and £1,666; section 2—Robbins Bros., 16 West Bay, Bridport, £787; section 5—C.O.A.P. (Builders), Ltd., Shrubbery Lane, Wyke Regis, Weymouth, £1,030 (recommended).

Caernarvonshire.—Erection of a new residential school for physically handicapped children at Llandudno, for C.C. A. W. Williams, county architect—Edward Jones (Contractors), Ltd., Bangor Road, Penmaenmawr, £129,000 (subject to Ministry approval).

Camberley, Surrey.—External and partial internal repairs and redecorations at 45, 47, 209 and 211 Frimley Road and Portsmouth Road for C.C.—Clarke Bros. (Surbiton), 1a Alpha Road, Surbiton, £829 (recommended).

Castleford, Yorks.—External painting of 252 houses on the Ferry Fryston estate, contract 152, for B.C.—V. Bowker, 58 Pontefract Road, Purston, Featherstone, £1,762.

Chelmsford, Essex.—Construction of public conveniences at Melbourne Avenue, for B.C.—J. Gowers, Ltd., 9 Park Road, Chelmsford, £4,275 (recommended).

Chester.—Ten garages at Hoole House, 37 at Essex Road, Newton and 39 at Durham Road, Blacon, for City Council—Thomas Warrington and Sons, Ltd., 82 Station Road, Ellesmere Port, £1,409, £5,690 and £5,723, respectively (recommended).

Docking, Norfolk.—Erection of public conveniences at Beach Road, Holme-next-the-Sea, for R.D.C. G. E. Gibson, surveyor—R. G. Gower and Son, Heacham, King's Lynn, £998 (accepted); F. J. High (Ringstead), £1,283; F. Smalls and Son (Hunstanton), Ltd., £1,303.

Durham.—Following for C.C.: Erection of a village hall at Middleton-in-Teesdale. R. C. Williamson, Ltd., Station Works, Rowlands Gill, £11,946 (in lieu of previous tender); alterations to Winlaton Modern School—W. Charlton and Sons, Paygate, Crawcrook, £2,025.

Ealing, Middx.—External painting of 899 dwellings and 118 garages for B.C. Campden 1 and 4—D. P. O'Neill, Ltd., 196 Camden Road, London, N.W.1, £4,110 and £2,990, respectively; groups 2 and 3—Haymills Contractors, Ltd., Hanger Green, London, W.5, £2,994 and £2,608, respectively; group 5—E. R. Blackborow, Ltd., £1,327 (recommended).

Ealing, Middx.—Following works for B.C.: Tenders received for provision of Horsenden Hill golf pavilion and car park—Moran and Smillie Construction Co., £9,694; J. and S. Hinks and Co., Ltd., £9,983; G. Moss and Sons, Ltd., £9,998; Purser and Co. (Hillingdon), Ltd., £10,177; W. E. Black, Ltd., £10,259; Stanley Raymond and Co., Ltd., £10,485; J. Lawson and Co. £10,680; White and Thomas, Ltd., £11,154; T. Jones (Harrow), Ltd., £11,301; Ferris Bros. £12,834.

Provision of a school meals' servery at Oaklands Junior School and serveries at Stanhope Junior and Infants' School—White and Thomas, Ltd., 179 Hanworth Road, Hounslow, £1,678, and J. Lawson and Co., Ltd., 28 Park Road North, London, W.3, £3,454, respectively (recommended).

Easington, Dur.—Erection of mortuary at Easington village for R.D.C.—Direct Labour, £5,965.

Enfield, Middx.—Erection of branch library and rates office at Ponders End, for B.C.—Townsend and Collins, Ltd., 129 Goat Lane, Enfield, £17,534 (accepted); Fredk. Smith and Co. (Builders), Ltd., £18,558; Charles Cook and Partners, Ltd., £18,062; Field and Davis, Ltd., £17,595.

Exeter.—General building works (phase II) in connection with the erection of shops, maisonnettes and flats at Cowick Street, for City Council—Woodman and Son (Builders), Ltd., Bartholomew Street East, Exeter, £37,250 (recommended).

Farnham, Surrey.—External and partial internal repairs and redecorations at 1 to 8 Weydon Hill Road for C.C.—H. G. Larmer, Harwen, Shoreheath Road, Farnham, £970 (recommended).

Gateshead, Dur.—Erection of factory for Schweppes, Ltd., London Tripe and Wakeham, architects, 16 Fitzhardinge Street, London, W.1—Gilbert Ash, Ltd., 2 Stanhope Gate, London, W.1. Work to start in September.

Godalming, Surrey.—Erection of garages with concrete oversite at The Wharf for B.C.—H. J. Titcombe and Sons, Ltd., Millbrook, Milland, Liphook, Hants, £977 (recommended).

Gorseinon, Glam.—Extensions and alterations to the British Legion Club—E. Turner and Sons, Ltd., Walter Road, Swansea, £27,922. Thranes and Son, architects, 63 High Street, Newport, Mon., and Scannell and Manby,

quantity surveyors, 91 St. Mary Street, Cardiff. Work to commence Aug. 14.

Guildford, Surrey.—Erection of 12 garages and ancillary works at Norwood Road and Close, Effingham, for R.D.C. J. W. Snape, engineer and surveyor—Roy Coughlan, Ltd., Woodgreen, London, N.22, £1,970 subject to Ministry approval; Warner and Wheeler, £2,179; Howard and Co., £2,776; Deeks and Steer, Ltd., £2,802. Work commencing September.

Hove, Sussex.—Erection of a sports pavilion at the Nevill playing field, for B.C.—Stone and Son (Builders), Ltd., 90 Goldstone Villas, Hove, 3, £8,598.

Kidwelly, Carmar.—Repairs and improvements to Prince of Wales Hotel, Myddydygarreg, for B.C. J. E. Vaughan Evans, engineer and surveyor—D. J. Morgan, Wesley Terrace, Kidwelly, £2,226 (accepted); Tillman Bros., £2,606.

Kingston-upon-Thames, Surrey.—Provision of Civil Defence rescue training set for B.C.—J. and F. Hill, 15 Mount Pleasant Road, London, S.E.13, £1,389 (recommended).

Lambeth.—Following for B.C.: Twenty-three garages at Paradise Road, Studley estate—Direct Labour, £6,177; six garages at Portobello estate—Direct Labour; six flats and three garages on Paulet Road site and six flats and two garages on Templar Street site—Thomas and Edge, Ltd., 52 MacBean Street, London, S.E.18, £27,750 (all recommended, subject to Ministry approval).

Improvement and conversion work as follows: Thirty-six Hercules Road—Direct Labour, £2,447; various properties—Bridge Walker, Ltd., 91 Effra Road, London, S.W.2, £30,681; 50 and 52 Rosendale Road—Kilby and Gayford, Ltd., 87 Worship Street, E.C.2, £7,637; various properties in Oakden Street—S. Varney and Co., Ltd., Credon House, Verney Road, S.E.16, £32,091 (negotiated tender) (all recommended, subject to Ministry approval).

Letchworth, Herts.—Extensions to the library and museum at Broadway, for U.D.C.—Winton Hayes, Ltd., Drove Road, Biggleswade, Beds., £30,217 (accepted); Johnson and Bailey, £33,196; John Willmott, £31,325; Universal Housing Co., £33,998; Charles Ball, Ltd., £32,132; M. and F. O. Foster, £31,895.

Leyton, Essex.—Repairs to properties for B.C.: Contract 31—J. Thomas and Sons, Ltd., 341 Seven Sisters Road, London, N.15, £3,304; contracts 32/33—S. C. Grover, Ltd., 22 Strathfield Gardens, Barking, £4,272 and £2,772 (recommended).

Matlock, Derby.—Construction of a public convenience at the bus station, Bakewell Road, for U.D.C. N. Chamberlain, engineer and surveyor—J. W. Wildgoose and Sons, Ltd., Industrial Works, Matlock.

Middlesbrough, Yorks.—Erection of X-ray department and link corridor at Hemlington Hospital, for Newcastle Regional Hospital Board—Tarslag, Ltd., Stockton-on-Tees, £23,945. P. H. Knighton, architect to the Board and Thos. Barrett, Sons and Partners, 84 Grange Road, Middlesbrough, are the quantity surveyors.

Mitcham, Surrey.—External painting at various housing estates for B.C.: New Close estate 2, Ravensbury estate 1—David Lesley Contractors, Ltd., £1,225; Bordergate estate, Swains Farm estate—A. Kingsnorth, £5,875 (recommended).

Pollards Hill estate—George Jones and Son (Contractors), Ltd., £7,927 (recommended); South London Decorators, Ltd., £7,978; Ernie Bayliss, Ltd., £8,227; P. I. Hartel (London), Ltd., £10,383.

Monmouth.—Erection of 22 bus shelters (to be built of concrete blocks with tiled roof) for R.D.C.—George Tompkins, 32 Richmond Road, Abergavenny, £1,700 (accepted); Davies Bros., £1,840; Herbert Ludwig, £2,299.

Northumberland.—Erection of primary school at Ovingham, for C.C. C. C. Brown, county architect—Cawood Wharton and Co., Ltd., Harrogate. Estimated cost £20,000.

Northumberland.—Following for C.C.: Erection of primary school at Old Hartley—G. L. Currie, Ltd., Forest Hall, Newcastle upon Tyne, £22,000; infants' school at Hexham—Cawood Wharton and Co., Ltd., Harrogate, £20,000; additions to Loughoughton C. of E. School—Cawood Wharton and Co., Ltd., Harrogate, £10,500.

Oxford.—Following for City Council: Construction of slipper baths at north side of Lake Street—J. and H. Cox, Ltd., Bridge House, Littleworth, Oxford, £5,738; external painting of 23 police houses and boxes—J. J. Hamilton and Sons, Ltd., Perrin Street, Headington, Oxford, £1,554 (recommended).

Romford, Essex.—Following for B.C.: Improvements to toilet accommodation at Parklands Primary School—Warrior (Builders), Ltd., 149 North Street, Romford, £1,467; external painting of (a) 118 dwell-

lings at Cross Road estate, (b) 108 at Gallows Corner estate and (c) 84 at Oldchurch Gardens—(a) N. C. Rickus, Ltd., £1,583, (b) A. W. Adams (Dagenham), 95 Forest Road, Romford, £1,652 and (c) F. Troy and Co., Ltd., 131 Great Suffolk Street, London, S.E.1, £816; external decoration of the Town Hall—Henry W. West, Ltd., 85 Netley Road, Ilford, £1,080 (recommended).

St. Marylebone.—Following repair and improvement works to premises, for B.C.: 126 Hamilton Terrace—Webber Bros. (Contractors), Ltd., 30 Rampayne Street, London, S.W.1, £1,935; 26 Upper Wimpole Street and 32 Weymouth Street—F. Dejong and Co., Ltd., 43 Lower Belgrave Square, S.W.1, £312 and £407 (both recommended). External repainting of the Town Hall and extension—Kelly (Builders), Ltd., 10 Shrewsbury Mews, London, W.2, £1,537 (recommended).

Shoreditch.—Erection of a new building for Civil Defence purposes for B.C.—Tersons, Ltd., 4 Dollis Park, London, N.3, £6,533 (recommended).

South Shields, Dur.—Shop and offices, Keppell Street, for Burstro Services, Ltd.—J. Shewan and Son, 8 William Street, South Shields.

Stockton-on-Tees, Dur.—Six shops and 10 maisonnettes at Hardwick, for B.C.—Charles Tennet, Ltd., Church Road, Stockton-on-Tees, £54,750.

Erection of infant school at Fairfield, for E.C.—Marsh (Builders), Ltd., Grangefield Road, Stockton-on-Tees, £38,924.

Surrey.—Extensions to the west wing of the County Hall, Kingston-upon-Thames, for C.C.—William Willett, Ltd., Sloane Square, London, S.W.1, estimated cost £96,800 (recommended, extension of contract).

Swanscombe, Kent.—Construction of a 400ft. high reinforced concrete chimney at the Swanscombe cement works of Associated Portland Cement Manufacturers, Ltd. Oscar Faber and Partners, consulting engineers, 29 Queen Anne Street, London, W.1—Mitchell Construction Co., Ltd., Peterborough, £45,000.

Uxbridge, Middx.—Erection of a covered cattle yard, barn, milking parlour and dairy at Knightscode Farm, Harefield, for C.C.—Ferris Bros., 104 Churchfield Road West, London, W.3, £4,983 (recommended).

Wallasey, Ches.—Erection of works depot and garages, Town Meadow Lane, Moreton, for B.C. W. P. Clayton, borough architect—J. McGeoch and Sons, Ltd., Arbour Lane, Kirby Trading Estate, Liverpool.

Walsall, Staffs.—Erection of a four-storey office block with a car showroom and two shops on the ground floor at Hatherton Road, for J. H. Meek, Ltd., Shipley and Foster, architects, Kingscourt, Upper Bridge Street—Bird and Hough, Ltd., 5 York Avenue, Walsall. Estimated cost £65,000. Work just commenced.

Wandsworth.—Erection of a public convenience at junction of Atkins Road—Poynder Road for B.C.—J. Garrett and Son, Ltd., Cathles Road, London, S.W.12, £6,971 (recommended); Hunter and Clark (Southern), Ltd., £7,063; C. Ash and Son, Ltd., £7,124; Aillard and Saunders, Ltd., £7,222; Robert Hart and Sons, Ltd., £7,350; Anglo Scottish Construction Co., Ltd., £7,390; Tamworth Park Construction Co., Ltd., £7,398; Grosvenor Construction, Ltd., £8,051; James Pavey, Ltd., £8,114.

Wellingborough, Northants.—Construction of a supermarket on the Regal Cinema site, for the Venture Property and Development Co., Ltd.—Paterson and Dickinson, Ltd., Walton House, Warton Road, Stratford, London, E.15. Plans by staff architect; N. Crump and Partners, quantity surveyors, 40 Catherine Place, London, S.W.1; and A. G. Crowe, consulting engineer, 50 Belgrave Road, London, S.W.1. Work commenced.

Westminster.—Twenty-six flats and three garages and an annexe of eight garages at 1-5 Lowndes Square, S.W.1, for Sun Life Assurance Society, Ltd.—Higgs and Hill, Ltd., Crown Works, South Lambeth Road, London, S.W.8. Messrs. Joseph. architects, Kings Bench Walk, London, E.C.4. Bainbridge and Evers, quantity surveyors, 1a Middle Temple Lane, London, E.C.4. Estimated cost £218,000.

Weymouth, Dorset.—External painting of 52 houses and eight flats at Sussex Road, for B.C.—P. G. Burns, 106 Franchise Street, Weymouth, £945 (recommended).

Willesden, Middx.—Following works for B.C.: Extension to the central library, main contract—Direct Labour, £12,588; reinforced concrete first floor—Concrete (Southern), Ltd., £595; bricks—Finnis, Renault and Nicholls, Ltd., 3 Sloane Terrace, London, S.W.1, £706. Work commenced.

Erection of an old people's non-residential club at corner of Mortimer/College Roads—H. T. Oliver and Sons, Ltd., 371 Clapham

Road, London, S.W.9, £16,484; piled foundations—Terresearch, Ltd., Ruislip Road, Greenford, Middx., £3,613 (recommended).

Wolverhampton, Staffs.—Extension of existing factory and offices for the Midland Metal Spinning Co., Ltd., and erection of new buildings with site works and drainage for London Aluminium (Container), Ltd.—Sir Alfred McAlpine and Son, Ltd., 49 Waterloo Road, Wolverhampton. E. Roy Moore Associates, architects, Dock Meadow Drive, Lanesfield, Wolverhampton; and R. L. Bourqui and Partners, consulting engineers, Thermix House, Kingston-upon-Thames, Surrey. Work just commenced.

Wood Green, Middx.—Provision of a plant nursery at Wolves Lane, for B.C.—Buckingham and Sons, Ltd., 45 Vivian Avenue, London, N.W.4, £17,728 (recommended, subject to Ministry approval).

Workington, Cumb.—Erection of community centre for the Coal Industry Social Welfare Organisation—John Laing and Sons, Dalston Road, Carlisle.

CLOTHING AND TEXTILES

Southgate, Middx.—Supply of 40 donkey jackets for B.C.—Wallach Bros., Ltd., 49 Tabernacle Street, London, E.C.2, £110 (recommended).

DEMOLITION

Acton, Middx.—Demolition of the Bollo Bridge Tavern, for B.C.—J. Gallagher, £125 (recommended).

Barking, Essex.—Demolition of 14-24 (even) Church Road and 68-72 (even) Wakering Road, for B.C.—Oxford Bros., Ltd., £40 (recommended).

Bermondsey.—Demolition works, as follows, for B.C.: 46-54 Bush Road—W. H. Penfold and Sons, Ltd., Belmont Grove, Belmont Hill, London, S.E.13, £93; 10-36 Parfitt Road—John Harris, Ltd., £168 (both recommended).

Epsom and Ewell, Surrey.—Demolition of cottages at West Street, Ewell, for B.C.—D'Marco, Ltd., 64 Birchanger Road, London, S.E.25, £140.

Hammersmith.—Demolition of 1-9 Latimer Row, for B.C.—London Demolition Co., Ltd., 577 London Road, Isleworth, Middx., £183 (recommended); Gowing and Pursey, Ltd., £270; Coles Demolition and Excavation, Ltd., £275; Leonard Perlin, Ltd., £293; Geo. E. Cloke, Ltd., £297; T. E. Scudder, Ltd., £382.

Ilford, Essex.—Demolition of properties at Inglehurst Gardens area, construction of a boundary wall and realignment in temporary materials of public footpath through site, for B.C.—Geo. E. Cloke, Ltd., Elmstead, Neasden Lane, London, N.W.10, £988 (recommended).

Lewisham.—Demolition of 71 St. Germans Road for B.C.—Schilling and Clarke, Ltd., £50.

Southgate, Middx.—Demolition of 8 Lodge Drive, for B.C.—A. H. Nicholls and Sons, Ltd., 596 Green Lanes, London, N.13, £165 (recommended).

Willesden, Middx.—Demolition of (a) 42-44 Albert Road, 42-56, 39-43 Denmark Road and 1 Neville Road; (b) 80-98 Albert Road, 82-88, 85-95 Denmark Road and 5 Rupert Road; (c) 5-22/22a Bridge Street, 1-21, 31/33 Oxford Road and 37/39 Kilburn High Road, for B.C.—Haslem and Whymark, Roundabout Road, London, N.W.10, (a) £539, (b) £553 and (c) £608 (recommended).

ELECTRICAL

Barking, Essex.—Electrical installation at Thames View Hall for B.C.—London Electricity Board, 84 Romford Road, London, E.15, £1,156 (recommended).

Beddington and Wallington, Surrey.—Rewiring of electrical installations in 157 houses at Bute and Demesne Road estates, for B.C.—H. R. Installations Electrical Co., £5,328 (recommended).

Guildford, Surrey.—Sub-contract for the electrical installation and fitting in Civic Hall, for B.C.—Strand Electric and Engineering Co., Ltd., 29 King Street, London, W.C.2, £12,800 (recommended).

Middlesbrough, Yorks.—Electrical work at Beechwood School for E.C.—C. Horne and Co., Ltd., Middlesbrough, £1,346.

Richborough, Kent.—Construction of three large natural draft cooling towers at Richborough power station—J. L. Kier and Co., Ltd., 7 Lygon Place, London, S.W.1, in association with Film Cooling Towers (1925), Ltd., £550,000.

Sedgefield, Dur.—Electrical installation in 60 houses for R.D.C.—Robinson and Charlton, Front Street, Wingate.

Wood Green, Middx.—Internal rewiring to 198 houses at White Hart Lane estate, for B.C.—A. E. Southey and Co., 22 Broadway, London, N.14, £5,547 (recommended).

FENCING

Acton, Middx.—Erection of fencing at various open spaces and at sewage pumping station for B.C.—Truscott Fencing and Concrete Products, Ltd., Station Road, Dorking, Surrey, £3,296 (recommended).

Enfield, Middx.—Supply of bowtop fencing to forecourts on housing sites for B.C.—H. L. Goodman and Sons (Bristol), Ltd., Temple Way, Bristol, 1, £505 (recommended); The Sheepbridge Co., Ltd., £603; The Darlington Fencing Co., Ltd., £595; Bayliss Jones and Bayliss, Ltd., £557; T. W. Palmer and Co. (Merton Abbey), Ltd., £578; David Rowell and Co., Ltd., £637.

GAS AND WATER SUPPLY

Biddulph, Staffs.—Laying of approx. 655 lin. yd. of 4in. cast-iron water main in Newpool Road, Knypersley, for U.D.C.—D. Machin, 4 Shepherd Street, Biddulph, £2,482 (accepted); J. T. Gearsley and Co., Ltd., £2,647; Tunney (Engineering), Ltd., £2,866. Work commencing Sept.

Border, Cumb.—Laying of approx. 3,180 yd. of 3in. diameter spun cast-iron pipes, along with necessary valves, fittings, etc. Low House water supply, Wetheral, for R.D.C.—H. Cartner and Son, 1 West Tower Street, Carlisle, Cumberland.

Bradford, Yorks.—Supply of two chlorinators with chlorine flow recorder and two centrifugal pumps at the Thornton pressure filters for City Council—Chlorination Equipment, Ltd., 129 Kingsway, London, W.C.2, £1,398 (recommended).

Bullington, Oxon.—Water supply scheme, including six miles of mains, 7in. to 3in. diameter, and other works, for R.D.C.—J. E. Busfield, engineer and surveyor—Bridge-water Bros., Bicester Road, Aylesbury, Bucks., £46,977. Work about to commence.

Carlisle, Cumb.—Mainlaying for River Eden scheme, stage, 2, for City Council—Border Engineering Contractors, Ltd., 125 Queen Street, Whitehaven, £50,952 (recommended, subject to Ministry approval).

Chelmsford, Essex.—Provision and laying of water mains, contract 1, 2, 3 and 4 for R.D.C.—S. W. Harvey, engineer—G. J. Bardwell and Sons, Montrose, Cold Norton, Chelmsford, £1,326 (accepted); Thomas Vickers, £1,429. Work to commence Oct.

Cockermouth, Cumb.—Water main extension to the Lodore Hotel for R.D.C.—J. McCafferty, Cockermouth, £1,968.

Cwmbran, Mon.—Laying of approximately 1,540 lin. yd. of 3in. diameter cast-iron water main and approximately 960 lin. yd. of polythene supply pipes, for U.D.C.—R. O. Hann, engineer and surveyor—E. R. Powell (Cwmbran), Ltd., Old Railway Offices, I.C.I. Site, Cwmbran, £1,410.

Margate, Kent.—Following for the Thanet Water Board: Laying within the Board's area, from Wingham pumping station to Stourmouth, some six miles east of Canterbury, of about 4.5 miles of 24in. diameter spun-iron and steel pipes, and other works connected therewith—Whittaker Ellis, Ltd., 52/66 Portslade Road, London, S.W.8, £122,341 (accepted); Wm. Press and Son, Ltd., £128,021; Bowzell, Ltd., £130,103; Mears Bros. (Contractors), Ltd., £131,523; Arnold and Nathan, Ltd., £135,700; Robt. Saville, Ltd., £137,950; Turriff Construction Corporation, Ltd., £140,435; T.H. Contractors, Ltd., £140,624; J. Murphy and Sons, Ltd., £141,503.

Construction and maintenance within the Board's area of approximately 84 piles at the Wingham Marsh, half a mile east of the village of Wingham and some six miles east of Canterbury, to support a proposed trunk water main—Mears Bros. (Contractors), Ltd., 154-158 Sydenham Road, London, S.E.26, £6,395 (accepted); May, Gurney and Co., Ltd., £6,841; Terresearch, Ltd., £7,022; Arnold and Nathan, Ltd., £8,667; West's Piling and Construction Co., Ltd., £8,788; A. Jackman and Son, Ltd., £9,149; Bowzell, Ltd., £9,217; Concrete Piling, Ltd., £9,274; Piling and Plant Hire Co. (Kent), Ltd., £9,875; Turriff Construction Corporation, Ltd., £14,231; John Gill Contractors, Ltd., £17,298. Work commencing Sept. 1.

Smallburgh, Norfolk.—Laying of approx. two miles of 6in., three miles of 4in., and 28 miles of 3in. dia. asbestos-cement water mains, together with all valve fittings and other ancillary work, in various parishes of the Council's area, contract 7, for R.D.C. W. Herbert Bateman and Partners, consulting engineers, Halifax House, Bank Plain, Norwich—Ford and Carter, Ltd., Norwich, £79,748 (accepted); W. A. G. Johnson, £86,883; M. Maclean, Ltd., £88,275; R. and C. T. Whitehead, £89,536; A. R. Cleghorn and Co., Ltd., £91,500; Edward Thompson, Ltd., £93,133; Grocock and Day, Ltd., £96,111; Biggs, Wall and Co., Ltd., £99,495;

Surface Maintenance Services, Ltd., £120,817.

Staffordshire.—Following works for the Staffordshire Potteries Water Board: Laying of a 30in. water main from Tittesworth to Ladderedge—South Durham Steel and Iron Co., Ltd., 26 Collingwood Street, Newcastle upon Tyne, £165,528; supply of 18in., 12in., 9in., 6in. and 4in. dia. cast-iron pipes and specials for Shootershills reservoir, contract 56—Stanton Ironworks Co., Ltd., near Nottingham, £6,355.

Swaffham, Norfolk.—Laying of 1,370yd. of 3in. spun-iron water main to be laid between Chalk Road, Gooderstone, and the Beddingfield Arms, Oxborough, for R.D.C. E. M. Jenkins, surveyor and water engineer—K. D. Allington, Weeting, near Brandon, £1,439 (accepted); A. R. Cleghorn, £1,725; Cooper (Construction), Ltd., £2,057; E. J. Edwards, Ltd., £1,663. Work commencing September.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Christchurch, Hants.—Construction of two short sections of sea defence works at Mudeford Quay, involving two lines of steel sheet piling of approx. 87ft. run and 71ft. run, respectively, together with incidental works, for B.C.—James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth.

HEATING AND VENTILATING

Acton, Middx.—Conversion of boilers at Bollo Court to oil firing, for B.C.—Nye and Langston, Ltd., Friary Works, Palmerston Road, N.W.6, £1,223 (recommended).

Castleford, Yorks.—Design, provision and installation of a new heating installation at the public baths, Florence Street, for B.C.—Pearsons Installations, Ltd., Building Centre, Brunswick Terrace, Leeds, 2, £5,512 (subject to Ministry approval).

Newcastle upon Tyne.—Heating, water, gas and ventilation services at the Northern Counties Training College of Cookery and Domestic Science—Brightside Heating and Engineering Co., Ltd., Ecclesfield, Sheffield.

Willesden, Middx.—Heating and ventilating installation in blocks P and Q, South Kilburn site, for B.C.—Comyn, Ching and Co. (London), Ltd., 15 Shelton Street, London, W.C.2, £19,187 (recommended).

Workington, Cumb.—Heating public library for B.C.—Steel Engineering Installations, Ltd., Newcastle upon Tyne, £1,012 (recommended).

HOUSING SCHEMES

Abergele, Denbighs.—One hundred and fifty Homeville traditional houses, flats and bungalows and one lock-up shop at Sydenham estate, for U.D.C.—Middleton and Co. (Contractors), Ltd., The Grove, Lower Ince, Wigan.

Bagshot, Surrey.—Eight Homeville traditional houses at Bowling Green Farm, Chobham, for R.D.C.—Boucher and Dobson, Ltd., 246 High Street, Aldershot, Hants.

Barking, Essex.—Foundation works to block 1 at Linton Road housing redevelopment, for B.C.—W. and C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex, £23,557 (recommended).

Bellingham, Northumb.—Twenty-one houses at Otterburn for R.D.C. W. H. Williamson and Partners, architects, 7 St. Mary's Place, Newcastle upon Tyne—Thomas Muckle and Sons, Rothbury, Northumberland.

Billingham, Dur.—Sixty-three houses on Roseberry Road housing site 8, for U.D.C. Edwin Shaw, engineer and surveyor—Stephen Coates, Ltd., Langbaugh Place, North Ormesby, Middlesbrough, £90,881. Work commencing mid-August.

Bollington, Ches.—Twenty-eight Homeville traditional bungalows at Bollington Cross, for U.D.C.—Sparks and Yearsley (Contractors), Ltd., 5 Chapel Street, Congleton.

Bradford, Yorks.—Following for City Council: Twenty-four aged people's bungalows at Westfield Lane, Wyke—West and Sons (Leeds), Ltd., 15a Wesley Road, Leeds, 12, £40,204; 280 dwellings, one recreation centre with attached aged person's dwelling, and 17 garages, on the Allerton housing estate—Direct Labour, £472,417; 54 dwellings and 20 garages and construction of access roads and forecourts to the garages and landscaping at St. Paul's Avenue, Odsal—M. Harrison and Co. (Leeds), Ltd., Post Hill Quarries, Farnley, Leeds, £114,676 (all recommended).

Brierley Hill, Staffs.—Scheme D, 34 houses, School Street, Pensnett, and scheme G, 22 houses and one lock-up shop, Sheffield Street, Quarry Bank, for U.D.C. J. R. Moore, architect and housing director—A. and T. Garratt, Ltd., High Street, Pensnett, near Brierley Hill, and Buildings and

Equipment (Sedgley), Ltd., 55 Darlington Street, Wolverhampton, respectively.

Cannock, Staffs.—Forty houses and bungalows on site 73 (Allport Street—Cannock Road), for U.D.C. H. Wilcox, architect, High Green—Eadie and Co. (Wolverhampton), Ltd., 29 Waterloo Road, Wolverhampton, £83,588. Work commencing end Sept.

Carlisle, Cumb.—Twenty-two dwellings at Central Avenue, Harbary, for City Council—Direct Labour, £21,696 (recommended, subject to Ministry approval).

Chester-le-Street, Dur.—One hundred and forty-three houses and 54 garages, and the construction of roads and sewers for 189 houses to complete the West Lane housing estate, for U.D.C. A. H. Emmerson, surveyor—Direct Labour (subject to Ministry approval).

Docking, Norfolk.—Six bungalows and two houses, together with incidental works, at Groveside estate, East Rudham, for R.D.C. G. E. Gibson, surveyor and housing officer—Potter Bros., Yaxham Road, Dereham, £13,578 (accepted); Fisher and Sons (Fakenham), Ltd., £14,294; F. W. Shanks, Ltd., £15,920.

Durham.—Ten bungalows at Croxdale and 12 bungalows with roads and sewers at Pitlington, for the R.D.C. J. F. Willis, housing architect—Direct Labour, £11,090 and £15,507, respectively.

East Yorkshire.—Twenty cottage homes in the form of two-storey flats at Swanland, for the N.E.R. Cottage Homes and Benefit Fund, Clavering House, Newcastle upon Tyne, J. H. D. Priestman, architect, 101 Spring Bank, Hull, in conjunction with A. Newton Thorpe, architect to the Fund, Old Station Buildings, York—F. Shepherd and Son, Ltd., 91 Ferensway, Hull. Estimated cost over £32,000.

Eccles, Lancs.—Following for B.C.: 40 three-bedroom houses on New Hall Farm—C. Topham and Sons, 1 Berry Street, Peel Green, Eccles, £67,996; two pairs of semi-detached three-bedroom houses on Scott Avenue site—P. Bracegirdle, Ltd., Tramway Road, Irlam, £8,105 (both recommended).

Gateshead, Dur.—Six houses, six police houses and an office and garage at Beacon Lough, for B.C. G. F. Winters, borough engineer—J. Robson, Ltd., Stakeford, Northumberland, £20,680 (subject to Home Office approval).

Huntingdon.—Six Homeville traditional bungalows at Great Gidding, for R.D.C.—F. C. Whittaker, The Elms, Denton, Grant-ham, Lincs.

Ilford, Essex.—Thirty-three flats at Green Lane and 33 at Inglehurst Gardens, for B.C.—Hammond and Miles, Ltd., Scrafton Road, Ilford, Essex, £36,561 and J. Leary and Sons (Builders), Ltd., Ullswater Way, Elm Park, Romford, £35,723 (recommended).

Lambeth.—Sixteen dwellings at Charters Close extension for B.C.—Direct Labour, £36,892 (recommended).

Middlesbrough, Yorks.—Following for B.C.: Thirty-eight dwellings on the St. Hilda's housing site—Moore and Cartwright, Ltd., High Street, Norton-on-Tees, £97,893; 57 houses on the Easterside housing estate—Direct Labour, £92,601; 16 flatlets at Thorn-tree—Emco (Builders), Ltd., North Ormesby, Middlesbrough, £11,985.

Morley, Yorks.—Twenty-eight bungalows on the Moorhead estate for B.C.—E. Rhodes, Morley, £30,144 (recommended, subject to Ministry approval).

Northallerton, Yorks.—Twenty-two houses and eight flats, Forest Road estate, for U.D.C. A. J. Hardy-King, surveyor—R. B. A. Moody Bros. (Contractors), Ltd., Northallerton.

Northumberland.—Erection of a police house and office at Wylam for C.C. C. C. Brown, county architect—J. E. Douglas and Co., Ltd., Ivy Road, Forest Hall, Newcastle upon Tyne. Work commencing Aug. 22.

Sidmouth, Devon.—Twenty-four flats in two three-storey blocks at Lymebourne Park for U.D.C.—H. E. Hansford, Honiton, Devon, £37,391 (accepted); Devon Contractors, Ltd., £37,534; C. P. Unwin and Sons, Ltd., £37,904; T. Projects, Ltd., £39,968.

Sunderland, Dur.—Twenty bungalows at Grange Road, Castletown. C. Emmerson, surveyor—Direct Labour.

Surbiton, Surrey.—Conversion of Warwick Lodge into seven units of accommodation for B.C.—F. Hartree, Ltd., New Malden, £2,764 (recommended).

Swaffham, Norfolk.—Ten two-bedroom bungalows (type 59) in the parish of Mundford for R.D.C. W. A. J. Spear, architect, 36 Cattle Market Street, Norwich—J. F. Bennett, Ltd., Lakenheath, £11,560 (accepted); L. J. E. Bye, £14,538; Barker Bros., £13,113; O. Staines and Son, £12,137; S. Sutton and Sons, £11,850. Work commencing September.

Swansea.—Following for B.C.: 230 flats at Dyfatty and 166 houses at Clase (part 2 scheme)—Gibson and King, Great North Road, Milford Haven, Pems., £828,284 and £269,100; 190 houses at Sketty Park estate—Direct Labour, £320,985; 17 dwellings and six shops at Dyfatty—Staverton Builders, Ltd., Fforestfach, Swansea, £49,781 (recommended).

Tunbridge Wells, Kent.—Twenty-four dwellings at North Street redevelopment area for B.C.—Perryman (Building Contractors), Ltd., 7 Castle Street, Tonbridge, £33,182.

Wandsworth.—Following for B.C.: Twenty flats in two- and three-storey blocks on phase 2 of Clapham Manor Street housing scheme—W. R. Oldham, Ltd., Southend Lane, London, S.E.26, £43,996 (recommended); R. H. Lynn and Co., Ltd., £43,890; J. A. Dumayne and Co., Ltd., £45,429; Robert Hart and Sons, Ltd., £47,350; T. R. Roberts (Builders), Ltd., £47,382.

Eight maisonnettes and 110 flats in two-, five- and 11-storey blocks on phase 3 of William Willison estate, Putney—Pauling and Co., Ltd., 26 Victoria Street, London, S.W.1, £340,541 (accepted); J. Jarvis and Sons, Ltd., £354,772; M. J. Gleeson (Contractors), Ltd., £359,711; Wilson Lovatt and Son, Ltd., £361,134; Holland & Hannen and Cubitts, £364,973; William Moss and Sons, Ltd., £370,454; A. T. Rowley (London), Ltd., £371,993; The Unit Construction Co., Ltd., £373,610.

Forty-nine dwellings in two seven-storey blocks at phase 7 of Roupell Park estate, Streatham—Pauling and Co., Ltd., £153,643 (recommended); Robert Hart and Sons, Ltd., £153,440; W. J. Simms Sons and Cooke, Ltd., £154,634; William Moss and Sons, Ltd., £156,970; Speirs, Ltd., £158,851; John Laing and Son, Ltd., £160,205; Courtney and Fairbairn, Ltd., £160,685.

A seven-storey block of 21 flatlets for elderly people on Southcroft Road site, Tooting—Greenaway and Son, Ltd., 265 Lordship Lane, London, S.E.22, £50,700 (recommended, fixed-price tender); Fredk. Smith and Co. (Builders), Ltd., £51,721; Robert Hart and Sons, Ltd., £53,150; W. H. Gaze and Sons, Ltd., £53,683; W. J. Marston and Son, Ltd., £53,792; Griggs and Son, Ltd., £54,355; Marshall Andrew and Co., Ltd., £55,846.

Whickham, Dur.—Redevelopment scheme in the Athol Street area of Dunston, including the erection of 14 semi-detached houses, 13 ground floor aged persons' flats, 38 first- and second-floor two-bedroom maisonnettes, 32 lock-up garages, and the construction of roads, sewers, etc., for U.D.C. Fennell and Baddiley, architects, Bridge End Chambers, Chester-le-Street—William Leech, Ltd., St. James Street, Newcastle upon Tyne (subject to Ministry approval).

Willesden, Middx.—Following works for B.C.: Completion of block Y together with block W, comprising two one-bedroom flats, six two-bedroom flats, eight four-bedroom flats with five garages, external pram stores and drying area, the construction of an extension to the sewer together with extensive site works covering the resurfacing of the closed part of Neville Road and the tidying up of a considerable area at Carlton Road extension—E. J. Lacy and Co., Ltd., Steele Road, London, N.W.10, £49,561; plastering work, block A, Ellerslie site—W. A. Telling, Ltd., 62 Raymouth Road, London, S.E.16, £2,211 (recommended).

Yeovil, Som.—Forty-three dwellings and 15 garages at Sunningdale estate, scheme B.7 for B.C.—Drury Construction (South Western), Ltd., 9 Broad Quay, Bristol, 1, £79,445 (recommended).

MATERIALS AND SUPPLIES

Bradford, Yorks.—Supply of 100 cast-iron filter press plates for City Council—Knowles and Co. (Engineers), Ltd., Bradford, £1,567 (recommended).

Middlesex.—Supply of 6,500ft. of 3½in. pressure flex reinforced rubber-lined delivery hose made specially flexible and 7,500ft. of 2½in. pressure flex high pressure delivery hose with reinforced rubber lining, for C.C.—George Anzous and Co., Ltd., 300 Gray's Inn Road, London, W.C.1, £1,577 and £1,562, respectively (recommended).

Willesden, Middx.—Supply of 600 B.S.S. dustbins and lids for B.C.—Municipal Suppliers, Ltd., 2 Robert Street, London, W.C.2, 29s. 3d. (less 2½ per cent. monthly discount) plus 4s. 3d. purchase tax each.

PLANT AND MECHANICAL TRANSPORT

Acton, Midd.—Supply of following for B.C.: Trailer gritter—Atkinsons Agricultural Appliances, Ltd., Enterprise Works, Clitheroe, Lancs., £410; refuse collecting

vehicles—Commercial Motor Garage and Repair Co., Ltd., 265 Kingston Road, London, S.W.19, £5,896 (both recommended).

Bradford, Yorks.—Supply of following for City Council: Hydro excavator—Thomas Broadbent and Sons, Ltd., Huddersfield, £861; Commer 30cwt. van—Thornton Engineering Co., Ltd., 150 Manningham Lane, Bradford, 8, £766 (including an allowance of £40 for a redundant Bedford van).

Carlisle, Cumb.—Supply of a tipping lorry for City Council—Graham and Roberts, Ltd., Botchergate, Carlisle, £1,033 (recommended).

Ealing, Middx.—Supply of parks machinery for B.C.—T. Parker and Sons, £1,148; J. Gibbs, Ltd., £1,199; Huxleys Agricultural Machine Supplies, Ltd., £1,200; R. H. Andrews, Ltd., £1,255; Relf and Kendall, £1,260; J. Middleton, Ltd., £1,297.

Enfield, Middx.—Supply of following for B.C.: Two Bedford end-tipping diesel trucks—Arlington Motor Co., Ltd., High Street, Ponders End, Enfield, £2,138; three Ford Thames 15cwt. vans—Frank G. Gates, Ltd., 79 High Road, London, E.18, £1,457 (recommended).

Kendal, Westmor.—Supply of a mobile library vehicle for B.C.—Craghill and Co., Ltd., Kendal, £1,274 (recommended).

Lambeth, S.W.—Supply of a diesel tipping vehicle for B.C.—Rootes, Ltd., Barlby Road, London, W.10, £1,345 (recommended).

Orpington, Kent.—Supply of two 18 cu. yd. dual tip, rear-loading refuse collection vehicles with diesel engines, for U.D.C.—Regal Garage (Old Kent Road), Ltd., 814 Old Kent Road, London, S.E.15, net £4,201.

Penryn, Corn.—Supply of a Karrier Bantam refuse collecting vehicle with detachable top for B.C.—St. Austell By-pass Garage, Ltd., Southbourne Road, St. Austell, £1,215 (recommended).

Romford, Essex.—Supply of a tower wagon for B.C.—Daneholes Garage and Engineering, Ltd., Stanford Road, Grays, £1,504 (recommended).

Sedbergh, Yorks.—Supply of one Karrier Bantam 7 cu. yd. refuse collection vehicle powered by a light diesel engine, for R.D.C.—West End Garage (Helliwell), Ltd., Helliwell, Skipton, £1,007 (accepted); J. Douthwaite and Sons, £1,028; R. S. Morphet, £1,049; Myers and Bowman, Ltd., £1,050; Grace and Sutcliffe, Ltd., £1,040.

Sutton and Cheam, Surrey.—Supply of two Ford Thames 3-ton diesel lorries for B.C.—R. Pratt, Ltd., 268 High Street, Sutton, £2,079 (recommended).

Workington, Cumb.—Supply of lorry for B.C.—Gordon Garages, Ltd., 42 Washington, Road, Workington, £1,064 (recommended).

PLAYING FIELDS, PARKS, ETC.

Ealing, Middx.—Development of open space at 1 Ruislip Road, for B.C.—H. Pearl, Bovingdon, Ongar, Essex, £815 (recommended).

Middlesbrough, Yorks.—Playing field developments at St. Thomas' School for E.C.—En-Tout-Cas Co., Ltd., Leicester, £9,865.

Middleton, Lancs.—Construction of playing field at Kirkway for B.C.—A. C. Brew, Ltd., Irlam, Manchester.

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Southern Region:

London (Western) District: resurfacing and surface dressing of roads—Aubrey Watson, Ltd., Henley-on-Thames, Oxon.

Fishbourne, I. of W.: new car ferry slipway—John Mowlem and Co., Ltd., London, E.14.

Warminster: station renovations—Maurice Hill, Ltd., Horndean, Hants.

Bournemouth Central Station: repairs and improvements—James Drewitt and Son, Ltd., Bournemouth, Hants.

Gillingham Carriage Depot: renovations—W. R. Payne and Sons, Ltd., Westcliff-on-Sea, Essex.

Eastleigh Carriage and Wagon Depot: renovations—Caffin and Co., Ltd., London, W.C.2.

New Cross-Lewisham Area: aerial survey—B.K.S. Air Survey, Ltd., Leatherhead, Surrey.

Salisbury-West Moors-Redbridge Area: aerial survey—Hunting Surveys, Ltd., Boreham Wood, Herts.

Salisbury-Brookwood-Amesbury Area: aerial survey—Fairey Air Surveys, Ltd., Maidenhead, Berks.

Newhaven Town Station: improvements to staff accommodation—John W. Ridge, Ltd., Brighton, Sussex.

Exeter Central: improved staff accommodation—Stephens and Son, Ltd., Exeter, Devon.

Folkestone Central Station: reconstruction—John Laing and Son, Ltd., London, N.W.7.

Slade Green: recladding of repair shop—Maurice Hill, Ltd., Horndean, Hants.

Eastleigh Locomotive Depot: renewal of cladding—Maurice Hill, Ltd., Horndean, Hants.

ROADS, BRIDGES AND SITE WORKS

Abertillery, Mon.—Road improvement at Crumlin Road, Crumlin, route A.467, for U.D.C., involving the widening of the highway by filling to batter against a toe retaining wall, with appurtenant road, kerb and fencing works. Reginald H. Eke, engineer and surveyor—J. F. Dymond, Ltd., 30 High Street, Newport, Mon.

Acton, Middx.—Road works for B.C.—Sparkes Construction, Ltd., £12,890 (recommended, subject to C.C. approval).

Barking, Essex.—Following for B.C.: Construction of roads 3 and 8 at Riverside industrial estate—Organ and Co. (Barking), Ltd., River Road, Creekmoor, Barking, £33,015; reconstruction of Hertford Road—Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, London, E.3, £21,405 (recommended).

Blaby, Leics.—Construction of sewers, carriageways, footpaths and verges at Portland Street, Crosby, for R.D.C.—F. W. James, engineer and surveyor—Joseph Webster, Ltd., Forest Road, Narborough, Leics., £3,482 (recommended); A. F. Carr and Co., Ltd., £3,789; Stimpson and Rollison, Ltd., £3,544; Galliford and Sons, Ltd., £4,164; Laughton and Denham, Ltd., £3,640. Work commencing September.

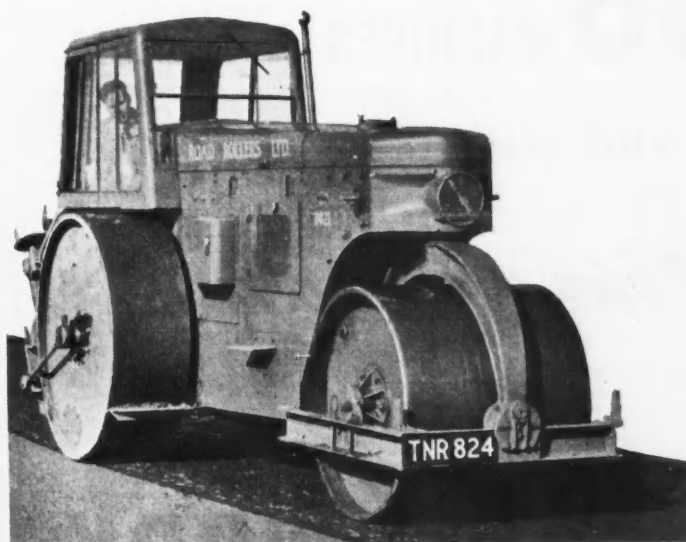
Carlisle, Cumb.—Following for City Council: Road works, etc., at Central Avenue, Haraby—Michael Thompson and Co., Ltd., St. Ninians Road, Carlisle, £4,520 (recommended, subject to Ministry approval).

Planing and tarspraying—W. and J. Glossop, Ltd., Amisfield House, Hipperholme, Halifax, £5,286 and £2,148, respectively (recommended).

Chelmsford, Essex.—Following for B.C.: Construction of a car park at Coronation Park and resurfacing of Rainsford Lane (part) and Baddow Road (part)—Waywarden, Ltd., 215 Forest Road, London, E.17, £1,944 and £1,468; resurfacing New London Road (part)—East Anglian Roadstone and Transport Co., Ltd., 66 Bracondale, Norwich, £3,924; service road at Widford industrial estate—W. and C. French, Ltd., 50 Eppir New Road, Buckhurst Hill, Essex, £4,630 (all recommended).

Chester.—Completion of roadworks at Plas Newton estate, for City Council—J. W. Flather, Ltd., Bleak House, Ellesmere Port, £35,897 (recommended).

Chigwell, Essex.—Works comprising approximately 750 sq. yd. macadam and concrete paving, 35 lin. yd. 4in. diameter stoneware



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- drains, erection of playground equipment and incidental works at Westall Road childrens' playground site C, for U.D.C.—Waywarden, Ltd., Forest Road, Walthamstow, E.17, £1,342.
- Colchester, Essex.**—Improvements at Church Lane, Lexden, for B.C.—J. Nunn and Sons, 1 Palmerston Road, Ipswich, Suffolk, £5,352.
- Crawley, Sussex.**—Surface dressing approximately 23,000 sq. yd. of road during August, 1960, for U.D.C.—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £1,150.
- Daventry, Northants.**—Construction of roads and sewers at Long Marsh industrial site for B.C.—Galliford and Son, Ltd., The Heath, Wolvey, Hinckley, £10,057 (recommended).
- Dearne, Yorks.**—Supplying and laying approximately 10,000 sq. yd. of fine cold asphalt and precast chippings for U.D.C. F. Baxter, engineer and surveyor—William Prestwich and Sons, Ltd., Dronfield, near Sheffield. Work commencing about Aug. 15.
- Derby, Derby.**—Surface water drainage and private street works, Hallows Rise, for R.D.C. J. Keith Hartley, engineer and surveyor—John Hadfield and Sons, Ltd., 67 Effingham Street, Sheffield, 4, £19,600 (accepted); H. Camp and Co., Ltd., £20,135; Butterworth and Partners, £20,754. Work to commence Sept. 1.
- Ealing, Middx.**—Tenders received for widening of Alperton Lane for B.C.—Alderton Construction Co., Ltd., £14,791; Percy Bilton, Ltd., £13,956; Carlton (Civil Engineering), London Ltd., £12,188; Donovan and Denny, Ltd., £11,628; W. and J. Glossop, Ltd., £13,564; The London Paving Co., Ltd., £14,679; Parr-Head and Clements Knowling, Ltd., £12,699; D. R. Paterson, Ltd., £13,277; Sherman and Co. (Ealing), Ltd., £13,920.
- East Riding.**—Liverpool-Leeds-Hull trunk road, A.63, improvement between Ferryby By-pass and Heads Lane, Hessle, for C.C. W. J. Noel Bryce, county surveyor—Sangwin, Ltd., Dansom Lane, Hull, £86,452. Work about to commence.
- Epsom and Ewell, Surrey.**—Construction of roads and sewers at West Street, Ewell, for B.C.—T. Vickers, Ltd., 288 Kingston Road, Leatherhead, £2,508 (recommended, subject to Ministry approval).
- Fermanagh.**—Resurfacing of Irvinestown Road, route T.10, for C.C.—P. Clarke and Sons, Ltd., Slushill, Lisnaskea, £13,147 (accepted); James Balfour, £18,638; J. J. Scallan and Sons, Ltd., £14,485; Dickson Bros., Ltd., £14,023.
- Fermanagh.**—Reconstruction of approximately one-third of a mile of route A.35 at Drumwhinny, for C.C.—James Balfour, Trory, Ballinamallard, £14,891 (accepter); R. J. Pattinson Nutt and Sons, £18,940; P. Lilly, £17,660; J. J. Scallan and Sons, Ltd., £15,309; P. Clarke and Sons, Ltd., £14,999. Work is expected to start in October.
- Fleetwood, Lancs.**—Resurfacing of Broadway (part) for B.C.—Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool, 2, £3,151 (recommended).
- Gateshead, Dur.**—Completion of road works and street lighting on Leam Lane estate (section B, phase 3) for B.C. G. F. Winter, borough engineer—Direct Labour £18,940 and £3,863, respectively.
- Guildford, Surrey.**—Following works for B.C.: Construction of roads and sewers at Park Barn—Nicholson Construction Co., Ltd., Freeland House, Cranleigh, £18,722 (recommended, subject to Ministry approval). Resurfacing of London Road between the Boxgrove roundabout and Avonmore Avenue with fine cold asphalt and precast chippings—Constable Hart and Co., Ltd., Lion House, Red Lion Street, Richmond (recommended).
- Hammersmith.**—Special footway works during 1960-61 for B.C.—Donovan and Denny, Ltd., £4,973 (recommended); J. Murphy and Sons, Ltd., £5,691; Alexander Thomson and Co., Ltd., £6,749; London Paving Co., Ltd., £6,998; Fitzpatrick and Son, Ltd., £7,354; W. and J. Glossop, Ltd., £7,505.
- Hartlepool, Dur.**—Construction of roads and sewers south of King Oswy Drive, for B.C. John Wilkin, borough engineer—T. R. Illingworth and Co., Ltd., Peterlee, Co. Durham, £10,992.
- Hove, Sussex.**—Construction of approximately 650 lin. ft. of road off Hangleton Way, to be known as Chichester Close, consisting of excavation, carriageway foundation of clinker, hardcore and flints, gullies to soakaways and precast concrete channeling for B.C.—A. C. Jenkins and Sons, Ltd., Barn Garage, Ladies Mile Road, Patcham, Brighton, 6, £2,540.
- Ilford, Essex.**—Following for B.C.: Site development works (stage 2) at Fullwell estate—W. and C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex, £13,884; maintenance of mastic asphalt footway verges, 1960-61—George Wimpey and Co., Ltd., 26 Hammersmith Grove, London, W.6, £7,114 (recommended).
- Irthlingborough, Northants.**—Complete reconstruction of carriageway and footpaths in Lees Street, including construction of sewers and other ancillary works for U.D.C. A. Dewhurst, engineer and surveyor—W. Squires, 28 Palk Road, Wellingborough, £1,776. Work commencing September/October.
- Keighley, Yorks.**—Making-up the following private streets for B.C.: (1) Oak Bank Avenue, Oak Bank Grove, Weston Street, (2) Oakfield Road, Hemsby Street, (3) Aylesbury Street, with tarmacadam carriage-ways, flagged footpaths, etc. R. Courtenay-Gibson, borough engineer—(1) D. J. Bates, 2 Yew Tree Road, Birchcliffe, Huddersfield; (2) Alredale Paving Co., Ltd., 20 Wharnclyffe Road, Shipley; (3) Ibmac, Ltd., 36 Sunbridge Road, Bradford, 1.
- Kingston-upon-Thames, Surrey.**—Resurfacing of classified roads for B.C.—Roads Reconstruction (1934), Ltd., Artillery House, Artillery Row, London, S.W.1, £8,760 (recommended).
- Lancashire.**—Following for C.C. James Drake, county surveyor—Bridgeworks involved in improvement of Liverpool-Preston trunk road, A.59, from Dunning's Bridge Road to Maghull diversion—The Norwest Construction Co., Ltd., Litherland, Liverpool. Work about to commence.
- Bridgeworks in reconstruction and widening of Bulk Canal Bridge, Lancaster, carrying Lancaster Canal over Lancaster-Kirkby Lonsdale Road, A.683—Wm. Eaves and Co., Ltd., Daggers Hall Works, Vicarage Lane, Blackpool. Work commenced.
- Leeds.**—Private street works in Ferncliffe Terrace, Rosecliffe Mount and Rosecliffe Terrace for City Council—General Contractors (Leeds), Ltd., 54 Bentley Lane, Leeds, 6, £1,523, (recommended).
- Leyton, Essex.**—Surfacing dressing, 1960-61, for B.C.—H. V. Smith and Co., Ltd., Walkden House, 3-10 Melton Street, London, N.W.1 (recommended).
- Malvern, Worcs.**—Widening of Pickersleigh Road (Wokey's Corner) for U.D.C. C. C.

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Judson, engineer and surveyor—P. J. Flanagan, Spring Lane, Malvern Link.

Middlesbrough, Yorks.—Reconstruction of The Avenue for B.C. J. A. Kenyon, borough engineer—William Clark and Co. (Thornaby), Ltd., Bridge Street, Thornaby-on-Tees, £19,275.

Middlesex.—Surfacing works along various county roads for C.C.: Hot rolled asphalt—Constable Hart and Co., Ltd., Molesey, £16,745; cold asphalt and dense bitumen slag macadam—Sparkes Construction, Ltd., £1,563 and £5,321, respectively (recommended).

Mitcham, Surrey.—Following for B.C.: Resurfacing of Grove Road and Dahlia Gardens—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £2,549 (accepted); Neuchatel Asphalt (Contracting) Ltd., £2,716; Constable Hart and Co., Ltd., £2,731; Waywarden, Ltd., £2,742; Tarmac Roadstone, Ltd., £2,772; Allmacadams, Ltd., £2,836; The Limmer and Trinidad Lake Asphalt Co., Ltd., £2,880; George Wimpey and Co., Ltd., £2,909; William F. Rees, Ltd., £2,987; Roads Reconstruction (1934), Ltd., £3,020; Amalgamated Roadstone Corporation, Ltd., £3,136; Surrey Bituminous Supplies, Ltd., £3,211; Home Counties Contracting Co., Ltd., £3,221; Associated Asphalt Co., Ltd., £3,692.

Footway work in various streets—W. and J. Glossop, Ltd., £6,310 (accepted); William F. Rees, Ltd., £6,324; Franks Harris Bros., Ltd., £6,640; Fitzpatrick and Son (Contractors), Ltd., £6,798; Coombeside Construction Co., Ltd., £7,377; Wilsons Surfacing Ltd., £7,747; Home Counties Contracting Co., Ltd., £8,272; Roads Reconstruction (1934), Ltd., £8,596; Alexander Thomson and Co. (London), Ltd., £8,874; Waywarden, Ltd., £10,890.

Oxford.—Construction of roads and sewers on land adjoining the Friar Bacon public-house, Cutteslowe, for City Council—Direct Labour, £5,700 (recommended).

Plymouth, Devon.—Making-up Linketty Lane, for City Council—Direct Labour (recommended). Estimated cost £7,002.

Potters Bar, Middx.—Surfacing of district roads with cold asphalt, including resealing joints in concrete carriageways, and incidental works for U.D.C. E. H. Walden engineer and surveyor—Amalgamated Roadstone Corporation, Ltd., 15 Stanhope Gate, London, W.1, £1,745. Work commencing October.

Rayleigh, Essex.—Surface dressing of approximately 27,700 super. yd. of carriageways for U.D.C. W. F. Howlett, engineer and surveyor—Essex Plant and Contracts, Ltd., Kelvedon, Colchester, £1,442.

Rushden, Northants.—Construction of footpaths and carriageway surfacing at Hayden

Road estate for U.D.C., involving approximately 408 sq. yd. of slab paving, etc., and 2,450 super. yd. of carriageway. W. J. Anker, engineer and surveyor: R. E. Crawley, Ltd., 45 High Street, Wellingborough, £1,873.

St. Ives, Hunts.—Roadworks on three housing estates for R.D.C. Lea, Milner and Wardley, architects, 4 Market Hill, Huntingdon—Lavender and Bateman (1937), Ltd., 68 Regent Street, Cambridge, £3,073.

Sedburgh, Yorks.—Surfacing of approximately 2,300 sq. yd. of the car park, Jess Lane, with a 2in. coat of tarmacadam, sealed with a layer of tarred grit for R.D.C.—J. Chaplow and Sons, Ltd., Kendal, £517 (accepted); Shepherds (Rochdale), Ltd., £584; Northern Tarroads, Ltd., £599; Pavior Construction Co., Ltd., £630; Bristowes Tarvia, Ltd., £1,198. Work commencing September.

Southgate, Middx.—Following works for B.C.: Resealing of joints on concrete roads—The Line and Sign Co., 1 Brett Road, London, N.W.10, 2s. 7½d. per lin. yd.; widening High Street between Blagden's Lane and Southgate Circus—J. Sugrue and Sons, Ltd., 194 Kilburn High Road, London, N.W.6, £8,142; provision of plastic white line markings—Glendinning (Roads), Ltd., 89 Shernhall Street, London, E.17, 11d. per lin. yd.; layout of the extensions to Palmers Green Car Park—A. H. Nicholls and Sons, Ltd., 596 Green Lanes, London, N.13, £4,675 (recommended).

Staffordshire.—Reconstruction of the Worcester—Wolverhampton—South of Stafford trunk road, A.449, between Whittington and the Worcestershire county boundary for C.C. J. Jepson, county surveyor—Three Counties Construction Co., Ltd., 32 Fairview Road, Penn, Wolverhampton. Work commencing September.

Strood, Kent.—Renovation of forecourt in tarmacadam at 108-116 High Street for Wright Bros. (Strood), Ltd.—Hodsons, Ltd., 17 Wrotham Road, Gravesend.

Sutton and Cheam, Surrey.—Surface dressing of roads, 1960-61, for B.C.—W. and J. Glossop, Ltd., Beddington Lane, Croydon (recommended).

Torquay, Devon.—Making-up of Loxbury road in two sections for B.C.—Northcotts of Exeter, Ltd., Venny Bridge, Whipton, Exeter, £929 and £1,677. Work to commence Sept. 1.

Tunbridge Wells, Kent.—Extension of the borough cemetery for B.C.—Direct Labour (recommended). Estimated cost £7,133.

Willesden, Middx.—Following works for B.C.: Widening and provision of lay-by. Craven Park Road/Manor Park Road—Waywarden, Ltd., 215 Forest Road, London,

E.17, £5,460 (recommended, subject to C.C. approval).

Widening of the carriageway, removal of wood blocks and surfacing with hot asphalt, that portion of Edgware Road between Cricklewood Lane and Ashford Road—Direct Labour, £12,515.

Wisbech, I. of E.—Contract 208—construction of roads, sewers and incidental works at Tinkers Drove housing site, for B.C., comprising approximately 2,266 super. yd. of lean-mix concrete carriageway, 870 lin. yd. of kerb and 366 lin. yd. of 9in. diameter sewers. J. Thompson, borough engineer and surveyor—D. and H. (Contractors), Ltd., 83 Regent Street, Cambridge, £11,310 (accepted, subject to Ministry approval); W. and C. French, Ltd., £12,040; Eames and Son Ltd., £12,563; W. G. C. Hammond, Ltd., £14,268.



York.—Construction of three tarmacadam tennis courts at Mill Mount Grammar School for City Council—D. Hughes and Sons, Dennison Street, Huntington Road, York, £5,616.



SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Barking, Essex.—Drainage works in the Harts Lane factory area for B.C.—Organ and Co. (Barking), Ltd., River Road, Creekmoor, Barking, £26,426 (recommended).

Beeston and Stapleford, Notts.—Construction of the Beeston sewage disposal works extensions for U.D.C., comprising the following: detritus channels and screening chambers, storm water tanks; alterations to existing tanks and filters; humus tanks; sludge digestion tanks and pumping stations; sludge drying beds; site works, roadways, etc. Elliott and Brown, Consulting engineers, Stanley House, Pelham Road, Nottingham—J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham, £156,782.

Beverley, Yorks.—Elloughton and Brantingham sewerage scheme for R.D.C.: Contract 1—construction of approximately 2,600yd. of concrete tube and spun-iron sewers, varying from 6in. to 27in. in diameter; approximately 180yd. of 18in. diameter spun-iron rising main; a short 27in. diameter spun-iron river outfall carried on timber piles; and a medium-sized sewage pumping station housing three 10in. diameter pumps and two comminators. The whole of the works listed above are situated in the parishes of Elloughton and Brantingham in the Beverley rural district. Contract 2—supply and erection of three 300 cu. ft. per minute unscreened sewage pumps, all complete with electric motors, starters and accessories. John H. Haiste and Partners, consulting engineers, Belmont


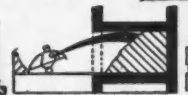
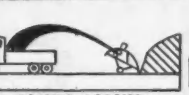











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House, 20 Wood Lane, Headingley Leeds, 6—Contract 1—A. Monk and Co., Ltd., Ferensway House, Hull, £44,306; contract 2—Sigmund Pumps, Ltd., Team Valley, Gateshead, 11, £4,800.

Chapel-en-le-Frith, Derbys.—Construction of a sewage disposal works for R.D.C., comprising tanks, filters, pump house, etc., together with approximately 1,600yd. of 15in., 12in., 9in. and 6in. sewers, including manholes and sewage ejector station, and all incidentals thereto at Upper End, in the parish of Wormhill. Brady and Partington, consulting engineers, Market Street, Chapel-en-le-Frith—Z. and W. Wade (Whaley Bridge), Ltd., Buxton Road, Whaley Bridge, via Stockport, £28,374. Work to commence this month.

Chertsey, Surrey.—Lyne Village sewerage scheme—construction of the gravity sewer only for U.D.C. M. C. Goldsmith, engineer and surveyor—Mannion Bros. (Harrow), Ltd., 23 Regal Way, Preston Hill, Harrow, Middx., £23,153 (accepted); A. Streeter and Co., Ltd., £27,799; Eagle Construction Co., Ltd., £35,768; Flynn Excavations, Ltd., £25,025; P. Lavelle, Ltd., £26,048; P. Lavelle, £38,479; F. Gumley, Ltd., £45,561; T.H. Contractors, Ltd., £34,926; Sam Booth, £32,286. Work commencing November.

Cuckfield, Sussex.—Worth Village sewerage scheme, contract 145, for R.D.C. A. Hutchings, engineer and surveyor—Austen Shives, Ltd., Effingham, Surrey, £5,674. Work commenced.

Cuckfield, Sussex.—Construction of a sedimentation tank, two filter beds, sand filter, pumping station, sludge drying beds, stormwater and other tanks, at Ardingly, contract 147, for R.D.C. A. Hutchings, engineer and surveyor—B.C. Construction Co., Ltd., Shoreham-by-Sea, Sussex, £14,945. Work commencing September.

Gloucestershire.—Improvements to Winterbourne sewage works, for Thornbury and Sodbury R.D.C.s. The work consists of the installation of pumps, alterations to channels and filters, provision of additional sludge drying facilities and laying pipelines. Maynard Froud and Stevens, consulting engineers, Alliance House, Baldwin Street, Bristol, 1—Avonmouth Plant and Construction Co., Ltd., St. Andrew's Road, Avonmouth, Bristol, £16,368 (accepted); J. H. Venn, Ltd., £16,978; H. J. Walker, Ltd., £17,496; H. Simmonds and Son, £17,684; Ware Construction Co., Ltd., £18,020; Ernest Ireland, Ltd., £18,647. Work commencing Aug. 1.

Kingston-upon-Thames, Surrey.—Drainage work at the Palace estate playing fields for B.C.—Tierney and Maguire, 26 Dudley

Drive, Morden, £3,444 (recommended, subject to Ministry approval).

Middlesex.—Provision of dome diffuser equipment for the activated sludge plant at Mogden Works, for C.C.—Activated Sludge, Ltd., Abbey House, Victoria Street, London, S.W.1, £13,706 (recommended).

Newquay, Corn.—Towan outfall scheme, stage 1 for U.D.C., comprising the construction of in-situ concrete-lined trunk sewers in heading, consisting partly of 4ft. 6in. by 3ft. (egg-shaped) sewer, and partly of 6ft. diameter circular sewer, together with a terminal outfall section in 24in. diameter steel pipes in heading, amounting to a total length of approximately 4,000ft. Also included are 11 access shafts, partly lined with concrete, penstock chamber, communitor chamber and cascade. Lemon and Blizard, consulting engineers, 1 Glenside, College Avenue, Mannamead, Plymouth—Sir John Jackson, Ltd., 53 Victoria Street, Westminster, S.W.1, £87,053 (recommended); James Miller and Partners, Ltd., £90,065; E. Thomas and Co., Ltd., £97,762; Edmund Nuttall, Sons and Co., Ltd., £113,841; Howard Farrow, Ltd., £121,421; A. E. Farr, Ltd., £122,274; Cementation Co., Ltd., £122,783; C. V. Buchan and Co., Ltd., £127,036; Mactrac, Ltd., £133,539; James Dennis and Son, Ltd., £139,271; Gray Conoley and Co., Ltd., £208,476. Work to commence October.

Oxford.—Supply of three motors to replace existing motors at the sewage purification works for City Council—Ames Crosta Mills and Co., Ltd., Abbey House, Victoria Street, London, S.W.1, £1,156 (recommended).

Rowley Regis, Staffs.—Construction of approximately 267 lin. yd. of 15in. to 9in. diameter stormwater sewer along the carriage-way of Doulton Road, together with a silt chamber, canal weir extension, manholes and ancillary works for B.C. S. G. Wood, borough engineer and surveyor—Hegarty and Kerrigan, 23 Seven Acres, Aldridge, Staffs., £3,392 (accepted); P. O. Boyle, £3,509. Work commencing September.

Sutton and Cheam, Surrey.—(a) Construction of the recirculation system and (b) supply of pipes and specials for sludge pumping main at Worcester Park sewage works, for B.C.—(a) Bridgewater Bros. (Public Works Contractors), Ltd., 97 East Street, Epsom, £2,577, and (b) Cochrane (Middlesbro) Foundry, Ltd., 34 Norfolk Street, London, W.C.2, £895 (recommended).

Torquay, Devon.—Construction of Happaway Road sewer, consisting of a total length of 360yd. of 21in. and 18in. diameter pipes for B.C.—C. Bryant and Son, Ltd., 113

Windsor Road, Torquay, £5,954. Work to commence Sept. 1.

Wandsworth.—Reconstruction of 620yd. of glazed stoneware sewers and nine concrete tube manholes in Tremadoc Road and Kenwyn Road, for B.C.—P. Lavelle, Ltd., 22 Leppoc Road, London, S.W.4, £13,695 (recommended); John Sugrue and Sons, Ltd., £15,459; Coffey and Son, Ltd., £15,985; J. Bray, £16,153; Tierney and Maguire, Ltd., £16,682; J. E. Billings and Co., Ltd., £20,846; Myles Macpartland, Ltd., £30,832.

West Kent.—Following for West Kent Main Sewerage Board, comprising contract 196—4,515yd. of 57in. and 60in. diameter foul sewers from Bourne Bridge, Bexley, to Halfway Street, Sidcup, 3,373yd. to be constructed in a tunnel and 1,142yd. in open excavations—Kinnear Moodie and Co., Ltd., 299-303 Hither Green Lane, London, S.E.13, £482,827.

Wigton, Cumb.—Glasson and Drumburgh sewerage schemes for R.D.C. W. H. D. Summers, engineer and surveyor—Eden Construction Co., Ltd., English Damside, Carlisle.

STREET LIGHTING

Beddington and Wallington, Surrey.—Installation of electric street lighting in Foresters Drive, Plough Lane, Purley, Ross Parade, Ross Road, Tharp Road, Sandy Lane North and Park Hill Road, for B.C.—Revo Electric Co., Ltd., 30 Great Queen Street, London, W.C.2, £7,953 (recommended).

Chester.—Supply and erection of 58 lamps at Plas Newton estate, and replacement of remaining gas lamps by electric lamps at Hoole, for City Council—Erecon, Ltd., Great Amwell, Ware, Herts., £1,172 and £1,585, respectively (recommended).

Consett, Dur.—Street lighting improvements at Castleside Road, Victoria Street, Bertha Street and Park Road, for U.D.C.—General Electric Co., Ltd., Magnet House, Gallowgate, Newcastle upon Tyne.

Ealing, Middx.—Following works for B.C.: Columns and lanterns for street lighting in Madeley Road and Queens Drive—Abacus Engineering, Ltd., Russell Chambers, 2 King Street, Nottingham, £1,247, and General Electric Co., Ltd., London, W.C.2, £455, respectively (recommended).

Tenders received for street lighting in Western Avenue—Park Royal to Alpertown Lane: (a) steel columns—Abacus, Ltd., £3,916; Atlas Lighting, £3,978; Cohen Bros., £4,091; Machinery Installations, £4,098; Erecon, Ltd., £4,099; G.E.C., £4,234; Revo Electric Co., Ltd., £4,239; (b) lanterns and equipment—Revo Electric Co., Ltd., £1,940; G.E.C., £1,942; Electrical and Lighting



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Provision of time switches: Horstmann Gear Co., Ltd., £2,673; Venner, Ltd., £2,863; Sanghams Weston, Ltd., £3,124.

Ilford, Essex.—Supply of the following for B.C.: For district roads lighting scheme (stage III)—(a) 1,105 post top lanterns; (b) 605 Atlas type 9 columns; (c) 1,105 sets control gear—Atlas Lighting, Ltd., 233 Shaftesbury Avenue, London, W.C.2, (a) £6,353, (b) £6,866 and (c) £3,922; (d) 500 columns and (e) 1,105 45-W sodium lamps—(d) G.E.C., Ltd., Kemble House, Kean Street, London, W.C.2, £5,687 and (e) G.E.C., Ltd., and Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2; for trolleybus routes—(a) 130 steel columns and (b) 130 lanterns—(a) Stewarts and Lloyds, Ltd., Winchester House, Old Broad Street, London, E.C.2, £3,130 and (b) Atlas Lighting, Ltd., £1,719 (recommended).

Leyton, Essex.—Supply of (a) Ware mark II 80-W mercury/fluorescent lanterns and (b) lamps and control gear (for class B lighting), for B.C.—(a) Engineering and Lighting Equipment Co., Ltd., Sphere Works, St. Albans, Herts., £900 and (b) Stella Lamp Co., Ltd., 158 Shaftesbury Avenue, London, W.C.2, £1,251 (recommended).

Littleborough, Lancs.—Supply of 21 concrete group B lighting columns, together with 60-W sodium discharge lanterns, lamps, vacuum jackets and auxiliary gear for U.D.C. D. W. Allison, engineer and surveyor—Engineering and Lighting Equipment Co., Ltd., St. Albans, Herts. Work commencing October/November.

Morley, Yorks.—Supply and installation of 140-W sodium street lighting units on trunk road A.58 for B.C.—Concrete Utilities, Ltd., 11 Albert Square, Manchester (recommended).

Oxford.—Provision of street lighting on the Gas Board site at St. Ebbe's for City Council—Southern Electricity Board, £991 (recommended).

Romford, Essex.—Improvements to street lighting at Straight Road, Oldchurch Road, Havering Road and Como Street, for B.C.—Engineering Lighting Equipment Co., Ltd., Sphere Works, St. Albans, Herts., £2,563 (recommended).

St. Marylebone.—Conversion of existing sodium and colour-corrected mercury vapour lighting in side streets in St. John's Wood to fluorescent lighting for B.C.—

General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, £4,063 (recommended).

GOVERNMENT CONTRACTS

Metropolitan Police.—Recent contracts placed include:

Internal redecorations, Deptford Police Station—Geo. Butters and Sons, £1,062.

Ministry of Finance, Northern Ireland.—Contracts exceeding £250 in value placed during the period July 4 to July 15, inclusive:

Supply, etc., steel racking: Ministry of Labour and National Insurance, Pensions Branch, Stormont—Steel Equipment Co., Ltd., Greets Green, West Bromwich, Staffs.

Conversion woodworking room into two lecture rooms and store: Stranmillis Training College—Guiney and Lee, 77 Percy Street, Belfast, 13.

Builders' work, etc.: U.S.C. Hut, Cooneen—M. Armstrong and Sons, Tempo, Co. Fermanagh.

Electrical installation in seven houses: Greenmount Agricultural College—T. Clarke, 31 Franklin Street, Belfast, 2.

Supply, etc., 50 steel racks: Ministry of Finance Stores, 18-24 Tomb Street, Belfast—Sankey Sheldon, Ltd., 25 Ann Street, Belfast, 1.

Air conditioning Pig Progeny Station: Greenmount Agricultural College—Everton Sheet Metal Works, Whitehouse, Newtownabbey.

Renewal of water main: Ministry of Agriculture, North West School, Strabane—Davison and McGuinness, Main Street, Strabane.

Electrical installation, Pig Progeny Testing Station: Greenmount Agricultural College Muckamore—Gilmore and Co., 35 Fountain Street, Belfast, 1.

New arrangement of boilerhouse: Ministry of Labour, Corporation Street, Belfast, 1—Johnston Bros., Main Street, Hillsborough, Co. Down.

Post Office.—Contracts for duct laying, etc., works to the value of £4,000 and over placed during the week ended July 23:

W. Emerson, Ashby, Spilsby, Lincs.; E. W. Moulson and Sons, Ltd., Forresters Yard, High Street, Wibsey, Bradford, 6; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; William Press and Son, Ltd., 22 Queen Anne's Gate, Westminster, London, S.W.1; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Redland.

Bristol, 6; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

Ministry of Works.—Contracts placed for week ended July 23:

Essex: Post Office, High Street, Ongar—erection—A. and C. Barvis, Ltd., Manor Works, Church Road, Thundersley, Essex. Lancashire: Telephone Exchange, White Street, Stockton Heath—erection—Cooper Bros. and John Clayton, Ltd., Catherine Street, Macclesfield.

London: 37 Belgrave Square, S.W.1—external decorations—Abbott of Harrow, Sherbourne House, Northolt Road, Harrow, Middx.; Wellington Museum, Apsley House, Piccadilly, W.1—alterations—Dove Bros., Ltd., Cloudeley Road, Islington, N.1; Whitehall district heating scheme, phase 1—builders' work, etc.—Higgs and Hill, Ltd., Crown Works, South Lambeth Road, S.W.8; Hyde Park—improvement scheme—Dove Bros., Ltd., Cloudeley Place, Islington, N.1; The Patent Office, 25 Southampton Buildings, W.C.2—alterations—Howe and White, Ltd., 35 Manor Road, Wallington, Surrey.

Oxfordshire: Telephone Repeater Station, Woodstock Road, Oxford—alterations and extensions—G. H. Kingerlee and Sons, Ltd., 35a Queen Street, Oxford.

Warwickshire: Crown Building, Harborne Lane, Selly Oak, Birmingham—extensions and adaptations—Higgs and Hill, Ltd., Stoke Heath Wharf, Swan Lane, Coventry.

Worcestershire: Ministry of Works Engineering Depot, Drakelow—erection of diesel generator—W. H. Dorman and Co., Ltd., Tixhall Road, Stafford.

War Department.—Contracts placed for the week ended July 22:

Brecknockshire (Cwm Gwdi): rifle range—T. F. Howells, Ltd., Caerphilly. Glamorganshire (Bridgend): miscellaneous—Davies and Davies, Ltd., Cardiff.

Hampshire (Farnborough and Cove): painting and decorating—P. J. Hartel (Southern), Ltd., Southampton; (Blackdown area)—painting and decorating—Donald Humberstone and Co., Ltd., Louth.

Kent (Dover): painting—South London Decorators, Ltd., London, S.W.16.

London (N.W.1): painting and decorating—Decorative Painting Contractors, Ltd., Hounslow.

Staffordshire (Marchington): painting—T. H. Kenyon and Sons, Ltd., London, W.9.

Warwickshire (Kineton): miscellaneous—Lewis and Watters, Ltd., Leamington Spa.

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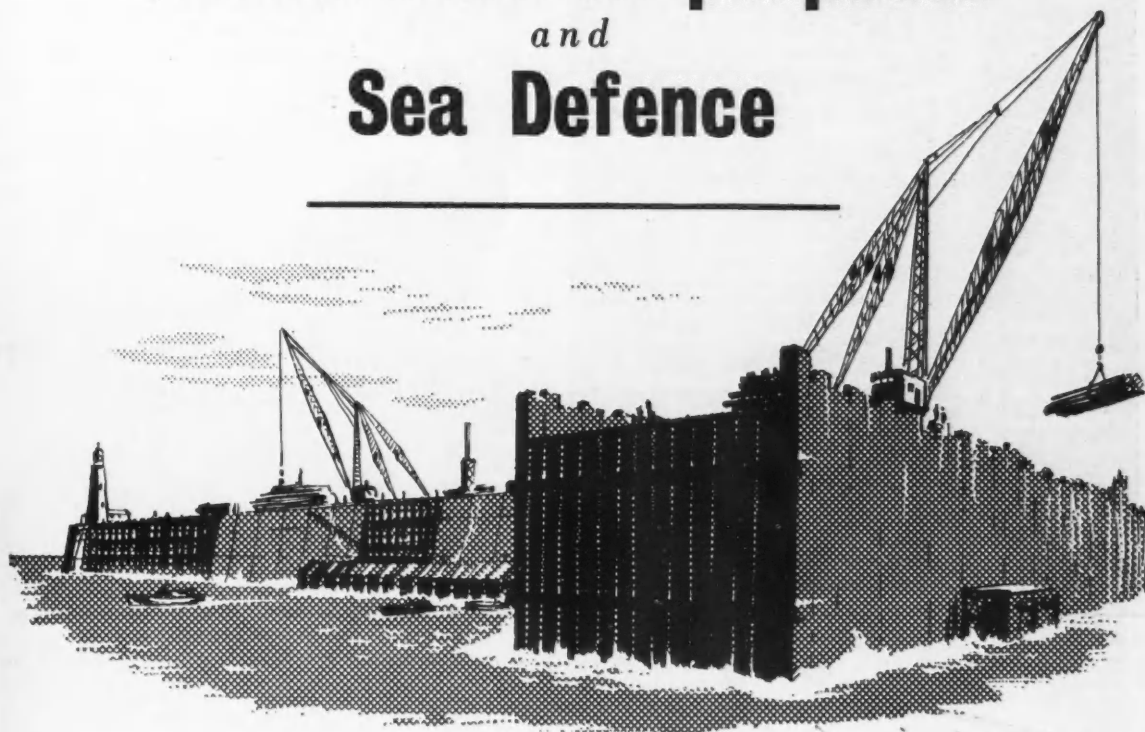
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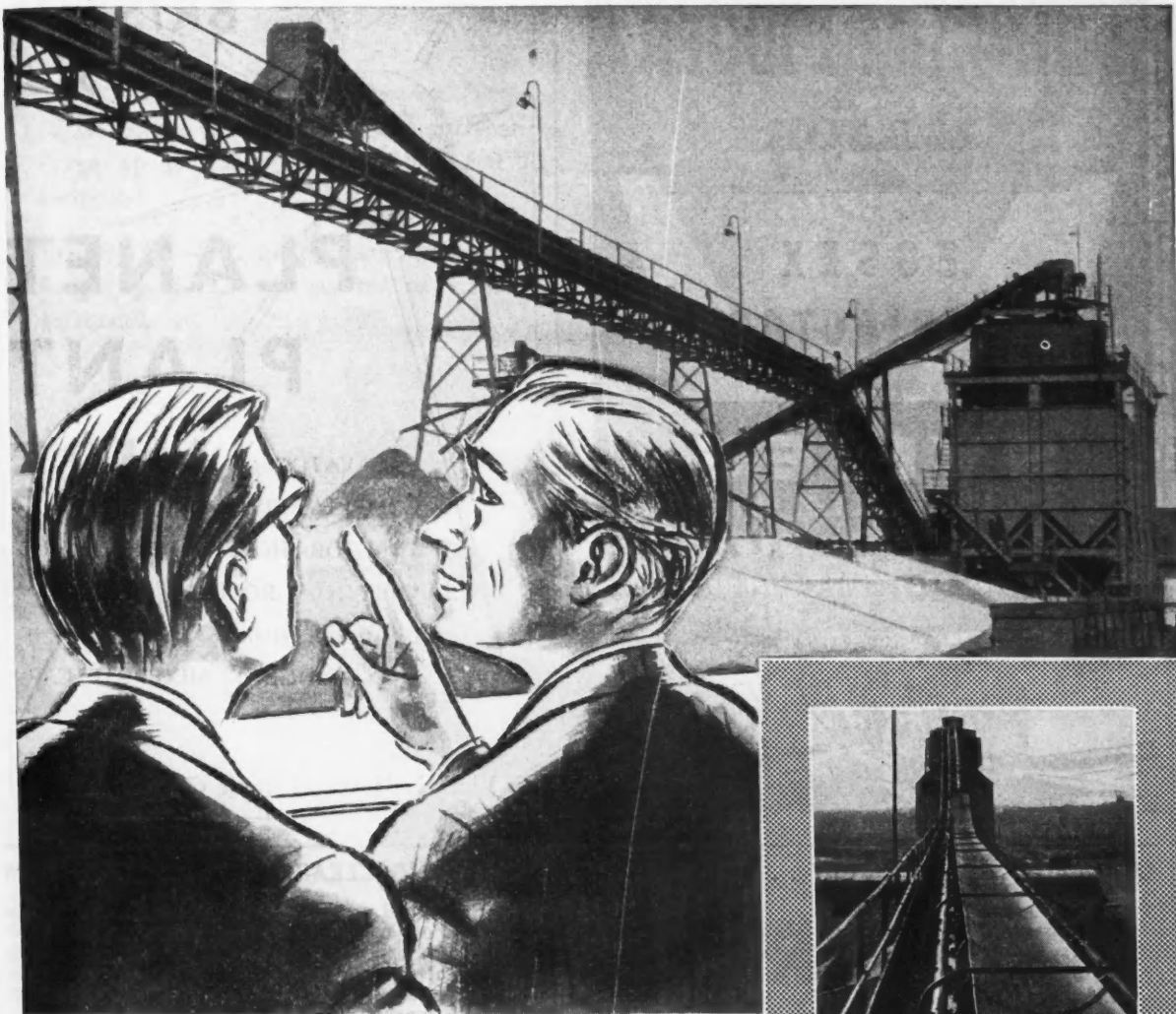
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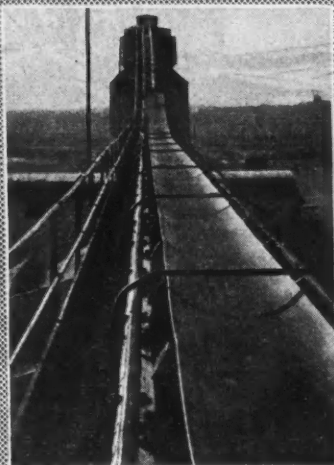
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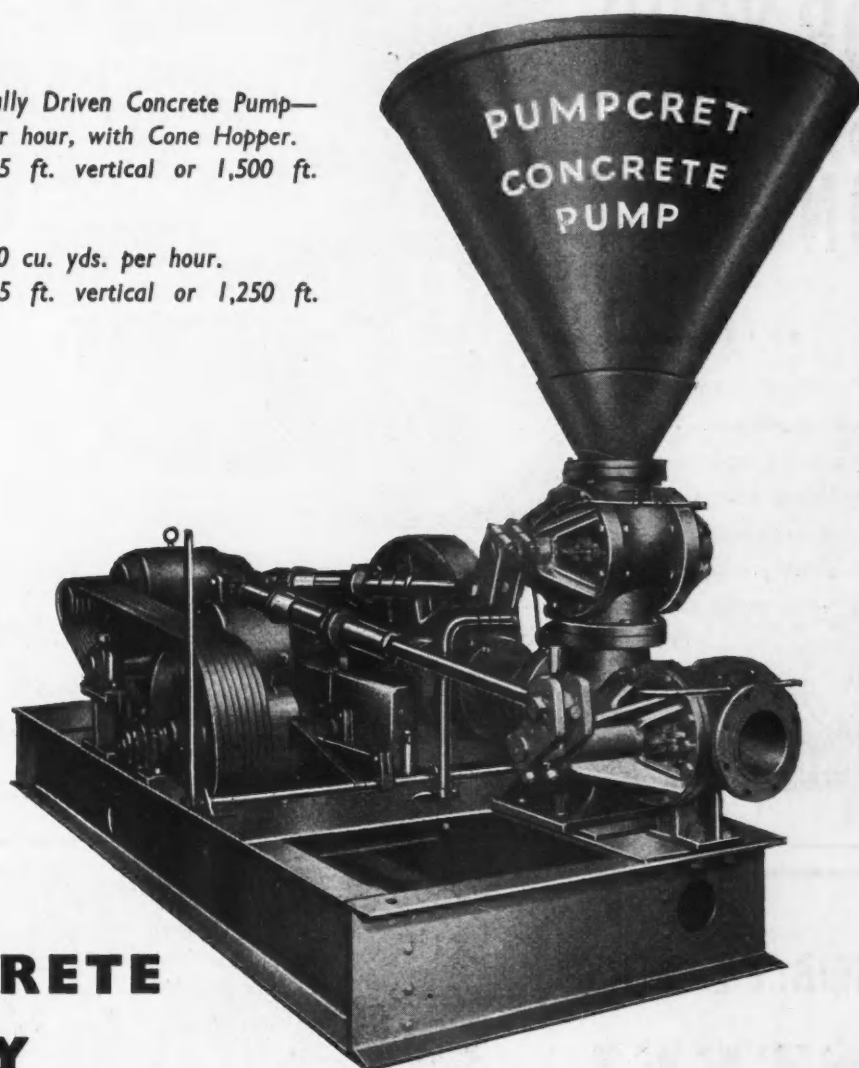


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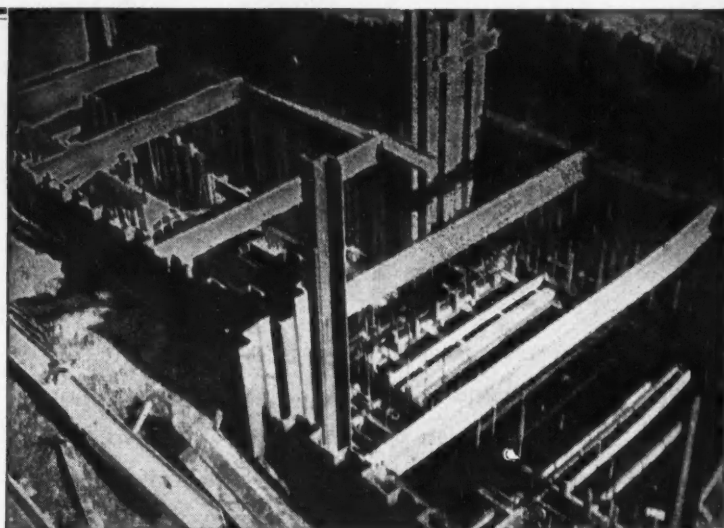


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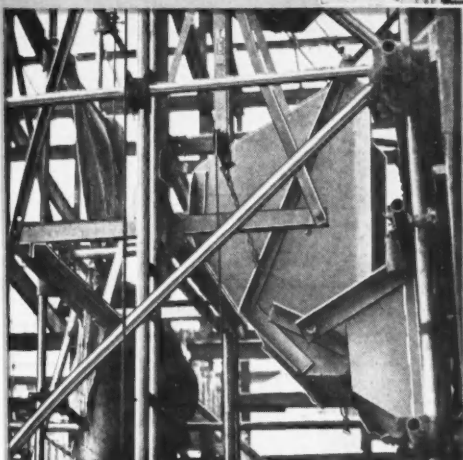
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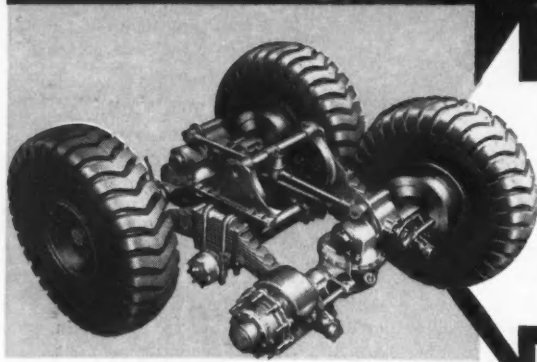


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PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

(Continued from page 608)

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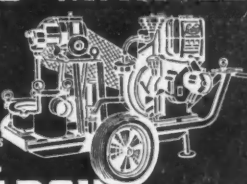
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Jones 4-ton, KL44, Diesel, 1953.
Coles 4-ton, Diesel/Electric, new engine.
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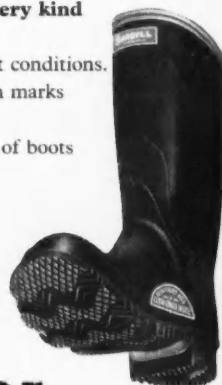
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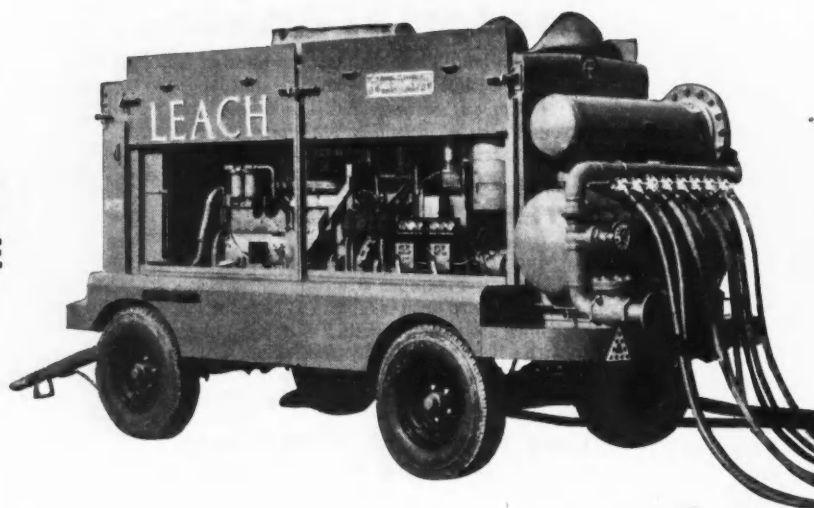
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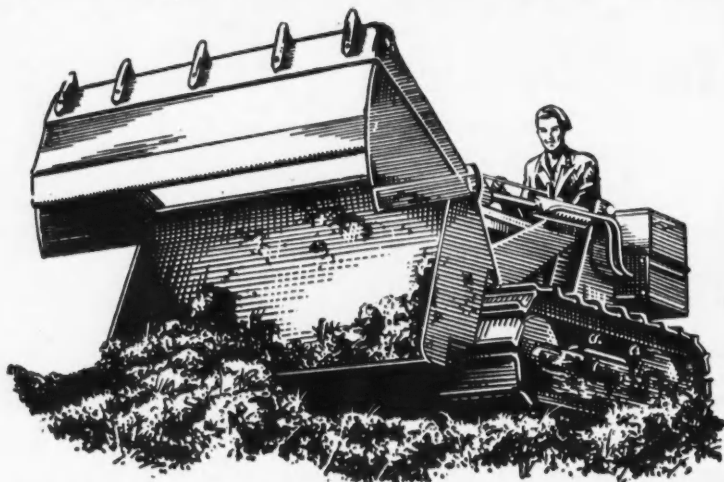
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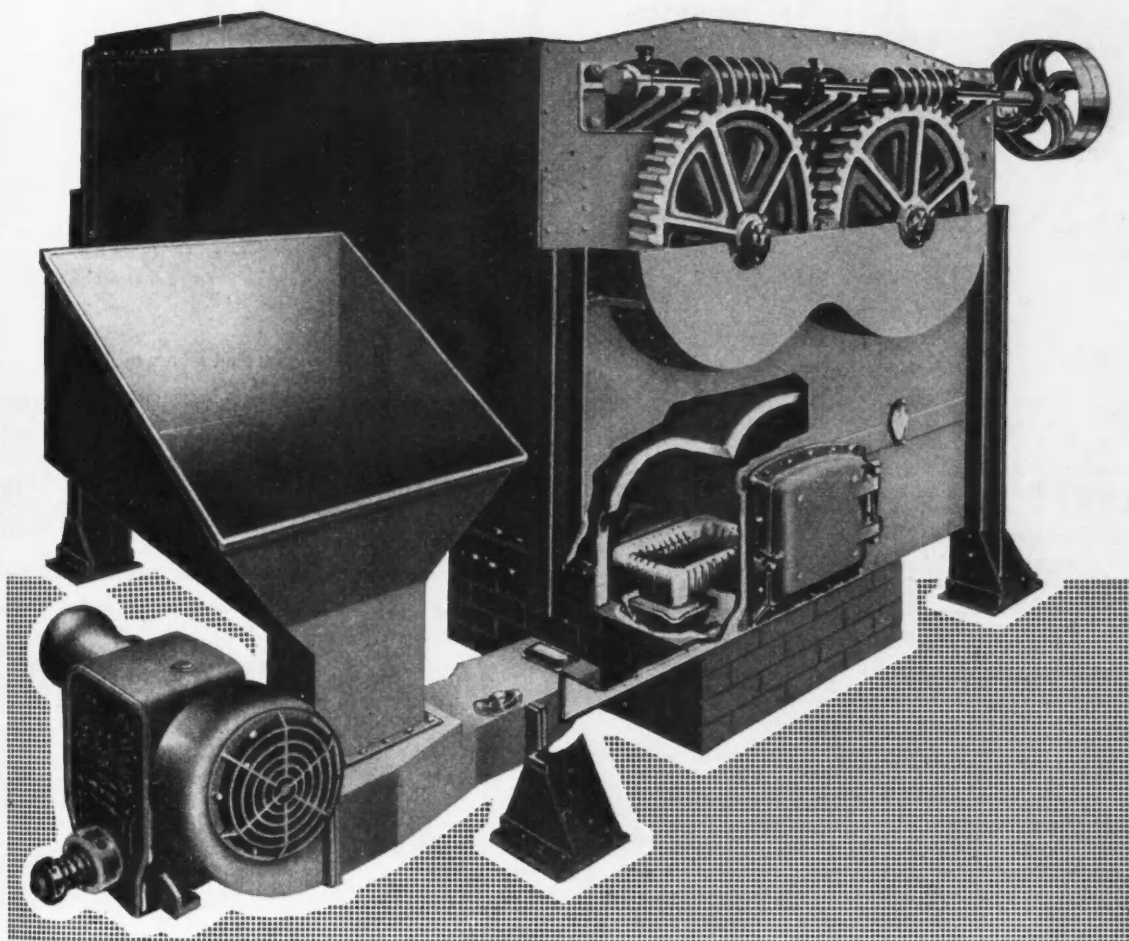
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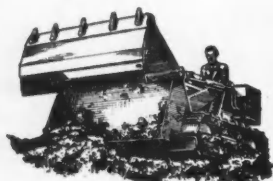
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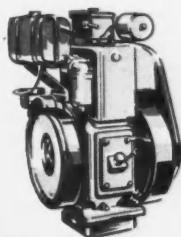
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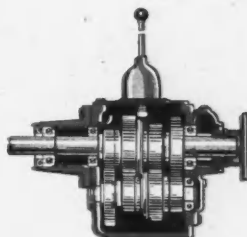
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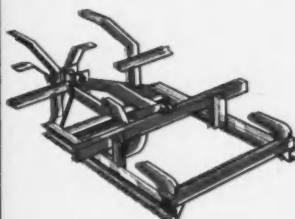
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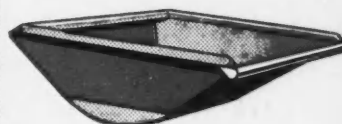
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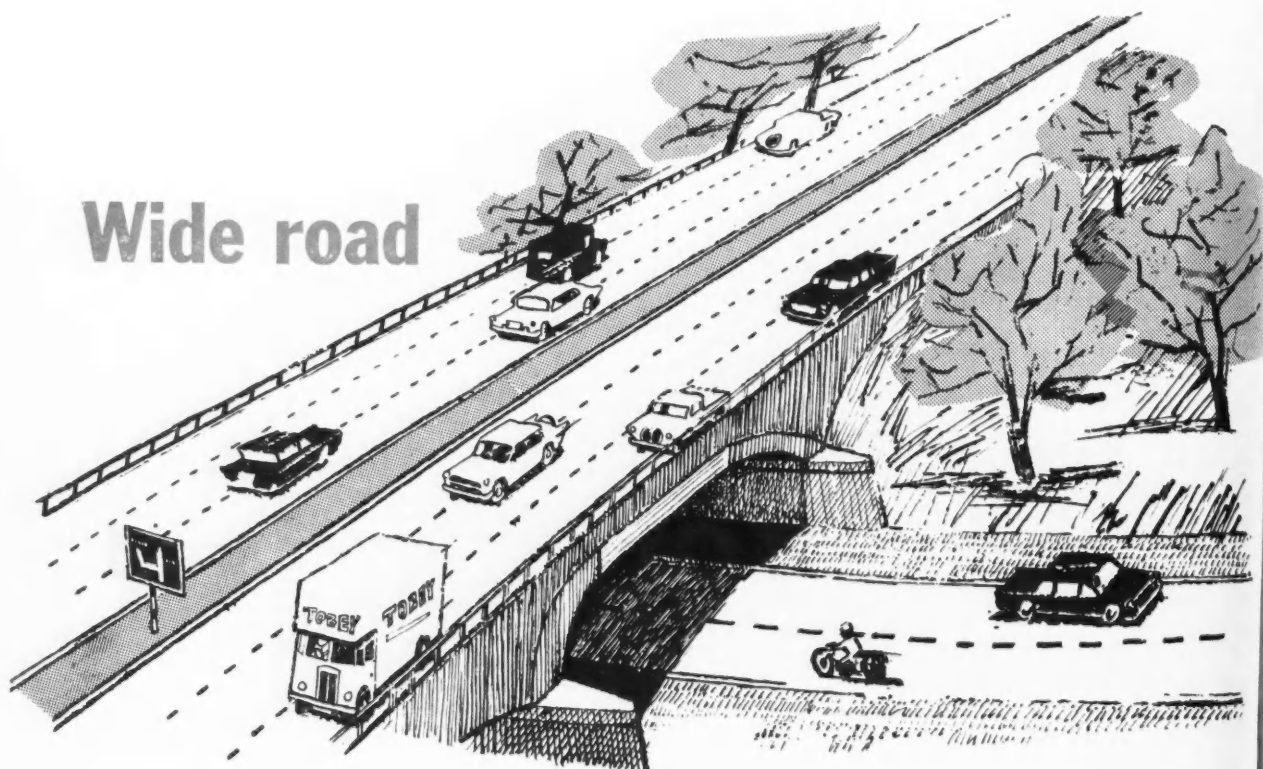
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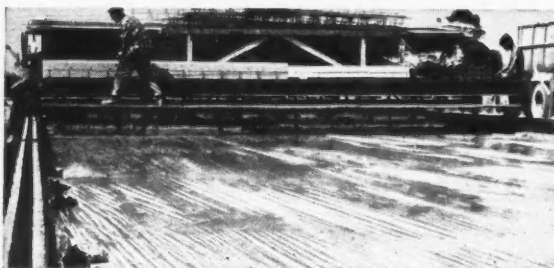
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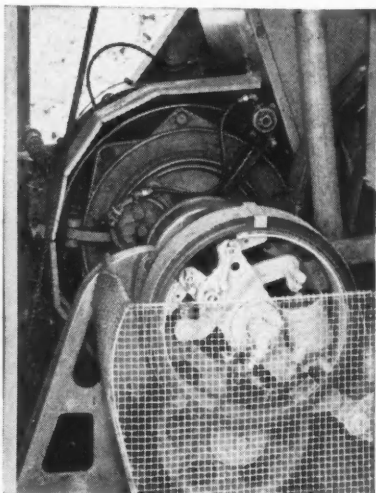
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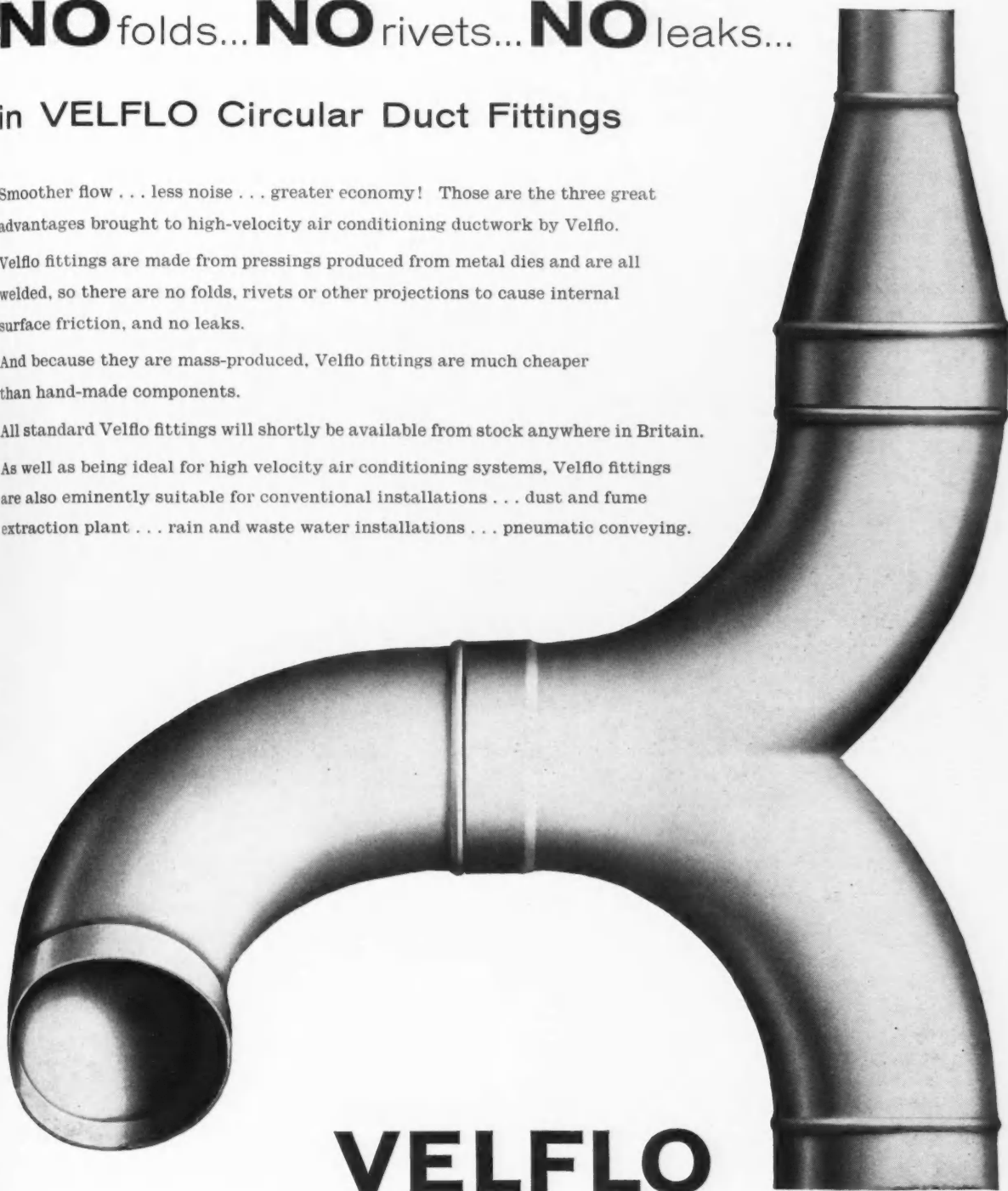
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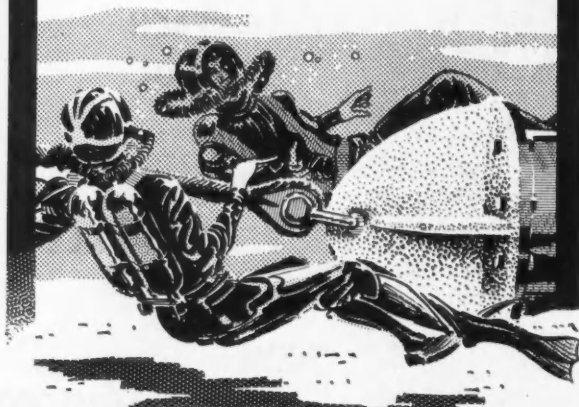
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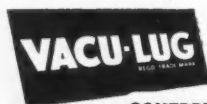
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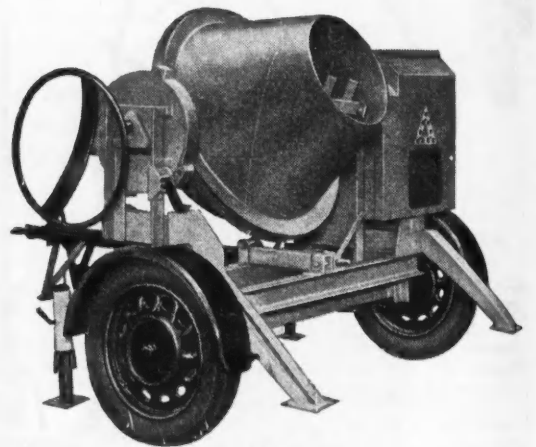
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GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hunts. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts. and South Cambs.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel.: 3969, 4353, 5996/5.) (See Cambs.)

WELFORD GRAVELS LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Bedfordshire and Northamptonshire. Regular deliveries anywhere.

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Leighton Buzzard, Bedford. Building sands.

BERKSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)

BULL BROS. & L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggins.

CURTIS, J. AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates, broken stone, Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching, broken stone, Cotswold building and walling stone.

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

POOLE (LECHADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

RALPH OF BASINGSTOKE, LTD., 37 Kempsott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path and hoggins, etc.

WRAYSLEY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading. (Tel.: Theale 373.)

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NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

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AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

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BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)

DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)

GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching, broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4453.) or Coroner's Court, High Wycombe (Tel.: 4360/1) and at Gerrards Cross. Pits at Wraysbury (Middx.) and Ivor (Bucks.).

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)

STUART MACEY LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)

CAMBRIDGESHIRE

DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DARBY'S SAND AND GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades of washed sand and gravel, ready-mixed concrete, P.C. Meas and Chippingham, Cambs.

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. All grades washed sand and gravel, reject stone, hoggins, breeze, clinker, "Terlita" crushed granite, foamed slag, concrete and brick hardcore, ready-mixed concrete—all grades. (Tel.: Cambridge 56973/4.)

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MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site, Station Rd., Kennett, Cambs. (Tel.: Kenford 334.)

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ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Huntingdonshire. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel.: Cambridge 3969, 4353, 5996/5.) Supplier, at lowest rates, of "Finest Quality Only" all grades washed sand and gravel, reject stone, hoggins, clinker, ashes, brick rubble, pitching, hardcore and granite chippings. All to B.S. Specifications. Delivered to any site in East Anglia.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 139.) Washed sand and gravel.

CAWDOX, WHARTON AND CO. LTD., Pitblay Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam at grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Broken, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 8094.)

CROXDEAN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Yeat 393.) Manchester Office: Bricklayers 3756/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Darnley 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Yeat 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

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TRENTHAM GRAVEL CO., LTD., Lordesley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plant capacity: 2,000 tons per day.

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PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mervagissey 3335/6.) Gwiltian Works, near Hayle. Pure silica gravel and grit, concreting, building, plastering and asphaltting sands, elvan and granite aggregates, all sizes.

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BROOMBYS, LTD., Sandside, Milnroth. (Tel.: 3251/2.) Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Dalston Road, Carlisle, Cumberland. (Tel.: Carlisle 2-4941.) All grades washed, crushed gravel and concreting sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

DENBIGHSHIRE

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BURROWS BROTHERS (EXCAVATIONS), LTD., Wolsley House, 108 Saltergate, Chesterfield. (Tel.: Chesterfield 1130.) Red shale, black ashes, graded clinker, higer mess, stone slag, sand, gravel and hoggins filling. Bulk quantity supplies.

GRAVEL HILL SAND QUARRIES, LTD., Ashby (Derby). (See Leicestershire for details.)

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brallford 316.) And at Willington. (Tel.: Repton 3215.)

DERBYSHIRE

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2232/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)

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BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET Limestones, LTD., Bournemouth, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limed to all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 8 Commercial Road, Parkston (Tel.: 5379.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.

DURHAM

BRAITHWAITE, A. AND CO., LTD., Knaresborough, Yorks. Quarry at Catterick. (Tel.: Old Catt. 1573.) (For details see Yorkshire.)

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Havridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.

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BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast brick and concrete hardcore delivered all areas.

DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fencible Road, Barking, Essex. (Tel.: Hainsutt 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered; also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sands, granite.

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STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham. Graded aggregates supplied or delivered.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Washed and graded aggregates. Local office and pits: Tillingham 287.

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

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AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregate, to B.S.S.

BENGRIY AND SONS, LTD., Longomoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Graded gravel aggregates, hardcore, granite, stone, chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.

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POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. 2361. (Conclude 215.)
TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)
WHITELIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarrred and bituminous limestone macadam, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 3542—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.)
THEALE, near Reading. (Tel.: Theale 355.)
Dorchester, Oxon. (Tel.: Clifton Hampden 236.)
Billing, Northampton (Tel.: Cogehoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
BULL BROS., B. AND S., LTD., 126A, St. Neots, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggins, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 443.)
HALL AND CO., LTD., Baltic Wharf, Marine Parade Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.
HASKINS, G. AND SONS, LTD., Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravel, hoggins, clinker, ashes. (Tel.: Emsworth 2271.)
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 253.) Concrete aggregates, building sand, hoggins, path gravel.
NEW MILTON SAND AND BALLAST CO., LTD., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed, uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.
PETERSFIELD ENGINEERING AND CONCRETE PRODUCTS, LTD., Burtton, nr. Petersfield, Hants. (Tel.: Petersfield 1079.) Concrete aggregates, washed and graded, filter media.
PRIVETT, W. G. AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggins, ashes, washed and graded, filter media, etc.
RALPH OF BASINGSTOKE, LTD., 37 Kemphott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path gravel, hoggins, etc.
WESSEX SAND AND GRAVEL, LTD., 126 Hillside Avenue, Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggins, building sand, etc.
WRAYSLEY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

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BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 3014.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.
NASH ROCKS, STONE AND LIME CO., LTD., Prestelinge, Radnor. (Tel.: Prestelinge 352.) All grades of tarrred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.
OLD RADNOR TRADING CO., LTD., Kingston. (Tel.: 11.) Granite and limestone aggregates, coated macadam, concrete products.
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DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddeston 2486.) Producers and distributors of all grades of washed aggregates.
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.
HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, G., CAMBRIDGE. 35 Magrath Avenue, Cambridge. (Tel.: 3969, 4353, 59966.) (See Cambs.)
WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggins, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
FERRERS AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: HANtwell 308.) Deliveries in Beds., Hunts, and South Cambs.
NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough. (Tel.: 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE. 35 Magrath Avenue, Cambridge. (Tel.: 3969, 4353, 59966.) (See Cambs.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent. (Tel. 586.) London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.M. bricks, ashes, etc.
BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.
CLUBB, J. LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.
DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners: tarmacadam, bituminous macadam, and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)
DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners: tarmacadam, bituminous macadam and dry roadstone suppliers. All Inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)
HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051) and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand. Surecrete precision-mixed concrete.
HARRIS, M. P. AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385). (See Sussex.)
TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarrred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)
BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates, pitching stone.
CROXEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel. 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD. (See Shropshire.)
HARTLEY, JOHN W. LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sand, clean washed natural pebble and crushed gravel aggregates for all construction purposes.
HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheshire, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester, 21. (Tel.: Chorlton 2274/5.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. The delivery depot is at: Liverpool and Preston Depots: Office: 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) Manchester Office: Cornbrook Road, Manchester, 15. (Tel.: Trafford Park 3830.)
ROUND-O QUARRIES, LTD., Helsby Street, Warrington. (Tel.: 3545—4 lines.) Building and concrete sand and shale.
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)
TRENTHAM GRAVEL CO., LTD., Lordsley Quarry, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp mixed concrete sand. Plastering sand. Plant capacity: 2,000 tons per day.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Offices and pits: Chorley 3923 and Wigton 82039.
WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.
X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) Best Leicester-shire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.
CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 501/2/3.) Granite aggregates to B.S.S. All sizes. Tarrred and bituminous granite, concrete slabs and kerbs. Transmitted concrete.
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)
ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Enderby, London: Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)
GRAVEL HILL SAND QUARRIES, LTD., Prior Park, Ashby-de-la-Zouch. (Tel.: Ashby 79.) Works: Hartshorne, Derbys. Yellow screened plastering and building sand, all to B.S.S.
HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)
HOVERINGHAM GRAVEL CO., LTD., Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)

LEICESTERSHIRE

MOUNTSOREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Mountsorrel, near Loughborough. Tarrred pink granite a specialty. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)
WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Northamptonshire.)
WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregate and sand.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggins. Ex quarries or delivered.
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)
EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand, etc. (Tel.: Lincoln 23391.)
HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Loughdam 3171—15 lines.) (For details, see Nottinghamshire.)
HURDIS, J. W. LTD., Victoria Street, Grimsby (Tel.: Grimsby 3657) or Caistor. (Tel.: Caistor, Lincs. 281.) Building, plastering, concreting sand, also gravel, ballast, hoggins and roadmaking materials.
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Rospely, all grades of hardcore and broken stone. (See also Northants.)
POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, phone Market Deeping 3132.
TRENTFORD GRAVELS, LTD., Head Office: Deansgate, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Vigilant 2530.) (For details, see Leics.)
COX, H. AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 415—3 lines.)
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMstead 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerbs and setts, felspar quartz and other minerals by road or rail, or ex London stores.
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)
DRINKWATER, W. W. (WILLEDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLADstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 622/3.)
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.
HALL AND CO., LTD., Chantry House, Eccles Street, S.W.1. (Tel.: Soane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.
KEEN, W. J. AND SONS, 18 Granville Road, Epsom, Essex. (Tel.: Epping 2520.) All sands, ballast, shingle and crushed stone.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T. LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)
ROADS RECONSTRUCTION (1934), LTD., Stockin Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MIDDLESEX

CROSS, GEO. C. AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Concrete aggregates, hardcore, excavations, demolitions.
DRINKWATER, W. W. (WILLEDEN), LTD., Staines Rd., Hounslow Mth., Middx. (Hounslow 622/3.)
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWard 4351/2/3.) Washed aggregate and building sand. Pits at Enfield and Hertford.
GRUNDON, S., 79 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition material.
HALL AND CO., LTD., Chantry House, Eccles Street, S.W.1. (Tel.: Soane 7122), and at Ashford and Brentford. Pit at Bedford, near Feltham. Gravel aggregates, concreting, plastering and building sand.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T. LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Edmondston Gravel Pit, Montagu Road, N.9. (Tel.: Shoreditch 9128/9.) and Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2.)
STUART MACEY, LTD., Gordon Road, High Wycombe (Tel.: High Wycombe 2591/2.)

CONTRACTORS' **GUIDE** TO AGGREGATES

MIDDLESEX

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.

WRAYSURRY SAND AND GRAVEL CO., LTD., Pits at Wraysbury (Tel.: Wraysbury 161.) Gravel aggregates, concreting, plastering and building sand.

MID-WALES

BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel. 961.) Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 6311); for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chestnut Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITELIFF QUARRIES AND BRICKWORKS, LTD., Cefceff, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel. 961.) Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

FRICKENHAM GRVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pitt: Feltwell.

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

SNITTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits: Snitterton. Concrete aggregates, building sand.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 241.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cognehoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cognehoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

HAYBROOK, E. W., LTD., Newton Road, Higham Ferris, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., building sand, hardcore.

DOCK (PRODUCTS), LTD., Tillingstone, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.

FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKINNESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand/cement). Prompt deliveries.

NINE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough. (Tel.: SS34/5.) and Ship End Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastford Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel only.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

NORTHAMPTONSHIRE

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.S.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Fortly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-y-fal 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-y-fal 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries in Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 58094.)

ENSTON BROS., Llwyn Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex works. Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DESIGN TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Cammell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Peterport, Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Bellmoor, Retford, Notts. (See Yorkshire.)

PRESTWICH, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel.: 2204/5 lines.) Derbyshire limestone and slag for all purposes and to all specifications. "Haddon" foamed slag blocks.

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cognehoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone, tarmacadam, dry, pitching stone, hardcore, etc.

CURTIS, J. AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/5.) For all road aggregates, kerbs, setts. (See London.)

DIX, G. H. AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELEME), LTD., Eweleme, Oxon. (Tel.: Eweleme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.

HAINES, N. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

SNITTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Roadstone, Cotswold building and walling stone.

WRAYSURRY SAND AND GRAVEL CO., LTD., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

RADNORSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel. 961.) Salop.

RUTLAND

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wetmix; large output; reliable deliveries.

BENGRI AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel. 961.) Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Washed sharp concrete sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex quarry and delivered.

DANGERFIELD, F. J. AND CO., LTD., 215A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/5.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol 5. (Tel.: 53001.) Gravel aggregates, concreting, plastering and building sand.

ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

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THE INDEX TO DISPLAYED ADVERTISEMENTS WILL BE FOUND ON PAGE 640

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Thursday, August 11, 1960. Registered at the General Post Office as a newspaper.


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that

the rains
came

down



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*A photograph of High Holborn,
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